

Final Report: Results of the 2006-2007 Investigation of Potential Contamination at the Former CCC/USDA Facility in Barnes, Kansas

Environmental Science Division



United States Department of Agriculture

Work sponsored by Commodity Credit Corporation,
United States Department of Agriculture

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Final Report: Results of the 2006-2007 Investigation of Potential Contamination at the Former CCC/USDA Facility in Barnes, Kansas

by
Applied Geosciences and Environmental Management Section
Environmental Science Division, Argonne National Laboratory

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Notation

AGEM	Applied Geosciences and Environmental Management
AMSL	above mean sea level
BGL	below ground level
°C	degree(s) Celsius
CCC	Commodity Credit Corporation
CD	compact disc
CLP	Contract Laboratory Program
COC	chain of custody
1,2-DCA	1,2-dichloroethane
DF	dilution factor
ENVSYS	Envirosystems, Inc.
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
gal	gallon(s)
gpm	gallon(s) per minute
KDHE	Kansas Department of Health and Environment
µg/kg	microgram(s) per kilogram
µg/L	microgram(s) per liter
µg/m ³	microgram(s) per cubic meter
µS/cm	microsiemen(s) per centimeter
MCL	maximum contaminant level
min	minute
MW	monitoring well
NAD	North American Datum
NAVD	North American Vertical Datum
ppb	part(s) per billion
PRP	potentially responsible party
PWS	public water supply
QA	quality assurance
QC	quality control
RBSL	risk-based screening level (Tier 2)
RPD	relative percent difference
SDG	sample delivery group
STL	Severn-Trent Laboratories
TOC	top of casing
USDA	U.S. Department of Agriculture
VOC	volatile organic compound

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Executive Summary

The 2006-2007 investigation of carbon tetrachloride and chloroform contamination at Barnes, Kansas, was conducted at the request of the Kansas Department of Health and Environment (KDHE).¹ The Environmental Science Division of Argonne National Laboratory implemented the investigation on behalf of the Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA).

The overall goal of the investigation was to establish criteria for monitoring leading to potential site reclassification. The investigation objectives were to (1) determine the hydraulic gradient near the former CCC/USDA facility, (2) delineate the downgradient carbon tetrachloride plume, and (3) design and implement an expanded monitoring network at Barnes (Argonne 2006a).

The Investigation

During the investigation, contamination was found at higher concentrations — and with wider distribution— than had been expected on the basis of previous findings. In addition, unanticipated difficulty was encountered in penetration to the required investigation depths with direct-push technology. Consequently, the original scope of the investigation was modified with the addition of sonic drilling for monitoring well installation, as well as through the expansion of the investigation area. The modifications were made with the approval of the CCC/USDA and KDHE project managers.

Sonic drilling methods were used to install 23 permanent monitoring wells at 13 distinct locations. Soil samples were collected in vertical profiles at all 13 boring locations. Groundwater samples were collected from the new monitoring wells, 4 existing KDHE monitoring wells,

¹ KDHE, 2005, letter from C. Carey (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), commenting on a limited work plan for one-time groundwater sampling and requesting the installation of additional monitoring wells to complete delineation of the plume, August 29.

2 private wells, and the 2 public water supply wells. These samples were analyzed for volatile organic compounds to generate the data needed to characterize the contaminant distribution.

Water levels in the monitoring wells and private wells were recorded manually 10 separate times. In addition, data loggers were placed in selected monitoring wells, and long-term monitoring of groundwater levels began for determination of the hydraulic gradient. This monitoring is continuing.

Conclusions

Conclusions of the 2006-2007 investigation at Barnes are as follows:

- The highest concentration of carbon tetrachloride identified in vadose zone soils, 40 µg/kg, occurred in a sample collected east of the former CCC/USDA property. This concentration is significantly below the regulatory level of 200 µg/kg for the soil-to-groundwater protection pathway. Only trace concentrations were found on the former CCC/USDA property.
- The concentrations of carbon tetrachloride identified in groundwater were relatively low (maximum 21 µg/L) and limited in extent. The boundaries of the carbon tetrachloride plume in groundwater were defined. Sentinel wells were installed between the plume and the public water supply wells, which are not yet significantly affected.
- The detection of chloroform suggests that natural degradation of carbon tetrachloride is occurring to a limited extent.
- Groundwater level data indicate that flow is influenced by pumping of the public water supply wells.

Recommendations

Recommendations resulting from the 2006-2007 investigation at Barnes are as follows:

- Remediation of soil on the former CCC/USDA property is neither required nor recommended, in view of the low carbon tetrachloride concentrations identified.
- Groundwater should be monitored quarterly for one year and then twice yearly for a second year. The results will help to determine what additional action, if any, is necessary at the Barnes site.
- Historically, carbon tetrachloride and chloroform were mixed and stored on the high school property. Some of the mixture was reportedly dumped outdoors, and the remaining chemicals were disposed of through the KDHE as hazardous waste. The proximity of the school property to the identified carbon tetrachloride contamination and the public water supply wells warrants further investigation of the school as a potentially responsible party (PRP). The CCC/USDA requests that the KDHE send a PRP Information Request form to the school district and that the KDHE determine whether other PRPs exist.

1 Introduction and Background Information

The 2006-2007 investigation of carbon tetrachloride and chloroform contamination at Barnes, Kansas, was conducted at the request of the Kansas Department of Health and Environment (KDHE 2005). The Environmental Science Division of Argonne National Laboratory implemented the investigation on behalf of the Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA).

The investigation was originally designed to (1) define the site's hydraulic gradient, (2) determine the extent of previously identified carbon tetrachloride contamination in groundwater, and (3) obtain adequate data to support recommendations for future actions, with the ultimate goal of petitioning the KDHE to consider reclassification of the Barnes site, in accordance with the Intergovernmental Agreement between the KDHE and the Farm Service Agency of the USDA. As the work progressed and contamination was found at higher concentrations — and with wider distribution— than had been anticipated on the basis of previous findings, the scope of the investigation was expanded with the approval of the CCC/USDA and KDHE project managers.

1.1 Investigation Objectives

Three investigation goals were proposed in the site-specific *Work Plan* for the Barnes investigation (Argonne 2006a). The *Work Plan* was approved by the KDHE on May 16, 2006 (KDHE 2006b). The goals were as follows:

1. Determine the hydraulic gradient near the former CCC/USDA facility.
2. Delineate the downgradient carbon tetrachloride plume.
3. Design and implement an expanded monitoring network.

As a result of unanticipated difficulty in penetration to the required investigation depths with direct-push technology during the initial field session, the scope of work described in the *Work Plan* (Argonne 2006a) was modified in July 2006 with the addition of sonic drilling (Argonne 2006b). The modification was approved by the KDHE (2006c).

This report details and interprets the data collected during the 2006-2007 investigation at Barnes. The investigation met the objectives defined in the *Work Plan* and accomplished the expanded scope of work approved by the KDHE.

1.2 Background and Previous Investigations

1.2.1 Background

The city of Barnes, Kansas, is a small, rural community of fewer than 200 residences in Washington County, in north-central Kansas (Figure 1.1). The city lies in a transition zone between the Flint Hills and the glaciated region. The area's topography consists of gently sloping hills of Pleistocene loess (< 20 ft thick) overlying a shale unit and interbedded shale, limestone, and siltstone of the Permian Chase Group. Groundwater for the public water supply is produced from the limestone aquifer of the Chase Group.

The city operates two public supply wells (PWS2 and PWS3) in the northwestern portion of the city. Construction details are not available, but KDHE records (KDHE 1997a) indicate that PWS2 has a 10-in. diameter and is 155 ft deep, while PWS3 has an 8-in. diameter and is 160 ft deep. Historical investigations indicated that groundwater generally flows toward the northeast, ranging from east-northeast to north-northeast.

The former CCC/USDA grain storage facility was approximately 800 ft east of the public supply wells (Figure 1.2). The boundaries shown for the former CCC/USDA facility in Figure 1.2 are based on legal descriptions obtained in 2005. Property ownership and lease records are summarized in Appendix A, Table A.1 (for the former CCC/USDA property) and Table A.2 (for the former CCC/USDA property and surrounding properties). Complete lease documentation for the former CCC/USDA property follows the tables in Appendix A. Complete documentation for the surrounding properties is available at Argonne.

Low levels of carbon tetrachloride were initially detected in 1986 in public supply wells PWS2 (2.1 µg/L) and PWS3 (0.5 µg/L). These concentrations are well below the drinking water maximum contaminant level (MCL) of 5.0 µg/L for carbon tetrachloride. The value of 5.0 µg/L is also the Kansas Tier 2 risk-based screening level (RBSL) for carbon tetrachloride. Between 1986 and the beginning of the 2006-2007 investigation, these wells were sampled 19 times. The

maximum carbon tetrachloride concentrations detected in PWS2 and PWS3 were 2.5 µg/L and 2.1 µg/L, respectively, in July 1987. Since 1987, carbon tetrachloride has been detected in PWS2 in 5 sampling events, with the highest concentration of 1.3 µg/L detected in August 1996. During the same period, carbon tetrachloride was detected in PWS3 in only 2 sampling events, with the highest concentration (1.7 µg/L) detected in July 1999. Carbon tetrachloride was not found at a detection limit of 0.5 µg/L in either well in the last known sampling (July 2005). The historical analytical results (with current results) for carbon tetrachloride and chloroform in PWS2 and PWS3 are in Table 1.1.

Other documented releases of hazardous chemicals at Barnes include an 18,000-gal spill of nitrate fertilizer from an aboveground storage tank at the Barnes Co-op (KDHE 1990) and leaking underground fuel storage tanks at Westside Service. Eight monitoring wells were installed because of the Westside Service release (AEI 2000). Two of these monitoring wells have since been abandoned.

1.2.2 Previous Investigations of Carbon Tetrachloride Contamination

Two investigations were conducted previously at Barnes on behalf of the KDHE. The purposes in both cases were to identify potential sources for the carbon tetrachloride in groundwater and to determine the extent of the contamination.

In 1996, PRC Environmental Management conducted a Phase I comprehensive investigation, on behalf of the KDHE, to identify potential sources for the contamination in PWS2 and PWS3 (PRC 1996). Activities focused on the two potential source areas closest to the public supply wells, as follows:

1. The site of the former high school, identified in the comprehensive investigation report prepared for the KDHE by PRC (1996) as an independent potential source of carbon tetrachloride contamination. PRC (1996) documented a statement by a lifetime Barnes resident that “chemicals were mixed in the agricultural building as part of the high school curriculum and then dumped outside.” PRC (1996) further documented a transmittal from the high school superintendent to the KDHE regarding proper disposal of

TABLE 1.1 Historic analytical results for carbon tetrachloride and chloroform in public supply wells at Barnes, Kansas.

Sample Date	Concentration (µg/L)			
	Carbon Tetrachloride		Chloroform	
	PWS2	PWS3	PWS2	PWS3
4/8/86	2.1	0.5	ND	ND
4/22/86	1.3	0.2	ND	ND
7/7/87	2.5	2.1	ND	ND
1/7/88	ND ^a	ND	NR ^b	NR
9/2/88	ND	ND	ND	ND
9/22/88	ND	ND	NR	NR
1/30/89	ND	ND	8.7	0.8
7/13/89	ND	ND	NR	1.5
8/12/91	ND	ND	ND	ND
4/11/95	0.5	ND	ND	ND
7/25/95	1.1	ND	ND	ND
5/1/96	ND	ND	ND	ND
8/13/96 ^c	1.3	0.5	NR	NR
8/28/97	0.9	ND	ND	ND
1/29/99	ND	ND	ND	ND
7/12/99	1.2	1.7	<0.5	0.6
3/22/00	ND (1) ^d	ND (1)	ND (1)	1.9
7/11/00 ^e	0.5	ND (0.5)	NA	NA
7/9/01	ND (0.5)	ND (0.5)	NA	NA
7/15/02	ND (0.5)	ND (0.5)	NA	NA
7/11/05	ND (0.5)	ND (0.5)	NA	NA
3/9/07	ND	0.2 J ^f	ND	ND
4/5/07	ND	ND	ND	ND

^a ND, not detected.

^b NR, result not reported in documents on file.

^c Data reported by the KDHE (1997b).

^d Detection limit in parentheses.

^e Methylene chloride was detected in the sample from PWS3 at 0.5 µg/L.

^f Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 1.0 µg/L.

Sources of data (1986-2005): BE&K 1999, 2000; KDHE 1997b, 2001, 2006a, 2007a; PRC 1996.

chemicals stored in the high school, including 2 pints of carbon tetrachloride (USD 223 1989). The site of the former high school, where carbon tetrachloride is known to have been present in significant quantity in 1989, is less than 250 ft from the public wells.

2. The site of the former CCC/USDA grain storage facility, approximately 800 ft east-southeast from the public wells.

As part of the 1996 comprehensive investigation for the KDHE, soil gas and soil samples were collected (April 29, 1996, through May 1, 1996) at the sites of the former high school and the former CCC/USDA grain storage facility (PRC 1996). Groundwater samples were also collected from the public supply wells and local private wells. All samples were analyzed for carbon tetrachloride and chloroform. Low levels of carbon tetrachloride and chloroform were detected in soil gas samples at both the former high school and the former CCC/USDA grain storage facility (Figure 1.3). In off-site laboratory analysis of one soil gas sample from each location, the low-level carbon tetrachloride contamination was confirmed. In addition, BTEX (benzene, toluene, ethylbenzene, and xylene) contamination was identified in the soil gas sample from the former CCC/USDA facility. However, neither carbon tetrachloride nor chloroform was detected in soil samples collected at 4-19 ft below ground level (BGL), including those collected at the locations with the highest soil gas values. No carbon tetrachloride or chloroform was present above the detection limit in any of the groundwater samples collected in April-May 1996, including those from PWS2 and PWS3 (Table 1.1 and Appendix B, Table B.1).

In 1998-1999, BE&K/Terranext conducted a Phase II comprehensive investigation on behalf of the KDHE to determine the extent of the groundwater contamination and the local groundwater gradient (BE&K 1999). Five monitoring wells — MW1S, MW1D, MW2D, MW3D, and MW4D — were installed to delineate the contamination previously detected in PWS2 and PWS3 (Figure 1.4). Wells MW1D, MW2D, MW3D, and MW4D were screened at approximately 100–160 ft BGL to intersect the water-bearing zone in which the public supply wells are screened (Appendix B, Table B.2). Carbon tetrachloride was detected in MW4D (on the former CCC/USDA property) at concentrations of 4.0 µg/L and 3.9 µg/L in December 1998 and January 1999, respectively (Table 1.2). Carbon tetrachloride was not detected in any of the other monitoring wells in the area in these sampling events.

In the 1999 comprehensive investigation conducted for the KDHE, the groundwater gradient was determined to be to the north-northeast, placing the former CCC/USDA facility downgradient from or cross-gradient to the two public supply wells (BE&K 1999). The two public supply wells and the five monitoring wells were sampled again on behalf of the KDHE in March 2000 (BE&K 2000). Carbon tetrachloride was again detected in MW4D, at a concentration of 5.1 µg/L. Carbon tetrachloride was not detected in any of the other monitoring wells (Table 1.2) or the public supply wells (Table 1.1). During the 2000 sampling event, the groundwater gradient was determined to be to the east-northeast, verifying the interpretation made in 1999 that the former CCC/USDA facility was downgradient of the public supply wells (BE&K 2000).

Complete historical analytical results for previous sampling events at Barnes, beginning in 1986, are in Table B.1, Appendix B. All available construction details for the wells sampled as part of the carbon tetrachloride investigations, as well as those sampled as part of the Westside Service investigation, are in Table B.2, Appendix B.

TABLE 1.2 Historic analytical results for carbon tetrachloride and chloroform in KDHE monitoring wells and private wells at Barnes, Kansas.

Well	Screened Interval (ft BGL)	Sampling Date	Concentration (µg/L) ^a	
			Carbon Tetrachloride	Chloroform
MW1S	13.3-23.3	12/28/1998	NS ^b	NS
		1/29/1999	NS	NS
		3/22/2000	NS	NS
		3/8/2002	NS	NS
		7/19/2006	NS	NS
		4/4/2007	NS	NS
MW1D	139.85-159.4	12/28/1998	ND ^c	ND
		1/29/1999	ND	ND
		3/22/2000	ND	ND
		3/8/2002	NS	NS
		7/19/2006	1.0	ND
		4/4/2007	1.2	ND
MW2D	133.26-152.93	12/28/1998	ND	ND
		1/29/1999	ND	ND
		3/22/2000	ND	ND
		3/8/2002	NS	NS
		7/19/2006	ND	ND
		4/4/2007	ND	ND
MW3D	133.02-152.73	12/28/1998	ND	ND
		1/29/1999	ND	ND
		3/22/2000	ND	ND
		3/8/2002	NS	NS
		7/19/2006	ND	ND
		4/4/2007	ND	ND
MW4D	98.38-118.22	12/28/1998	4.0	ND
		1/29/1999	3.9	ND
		3/22/2000	5.1	ND
		3/8/2002	7.3	ND
		7/20/2006	2.1	ND
		4/6/2007	3.5	0.1 J ^d
Oentrich	150 ^e	1/29/1999	ND	ND
		7/20/2006	0.3 J	ND
		8/2/2006	0.6 J	ND
		4/5/2007	0.6 J	ND
Sedivy	138 ^e	8/22/2006	ND	ND
		9/13/2006	ND	ND

^a Practical reporting limit = 1.0 µg/L.

^b NS, not sampled. For MW1S, sampling was attempted unsuccessfully on 12/28/1998, 1/29/1999, 3/22/2000, 7/19/2006, and 4/4/2007.

^c ND, not detected.

^d Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 1.0 µg/L.

^e Total depth of well.

Sources of data (1986-2002): BE&K 1999, 2000; KDHE 2002.

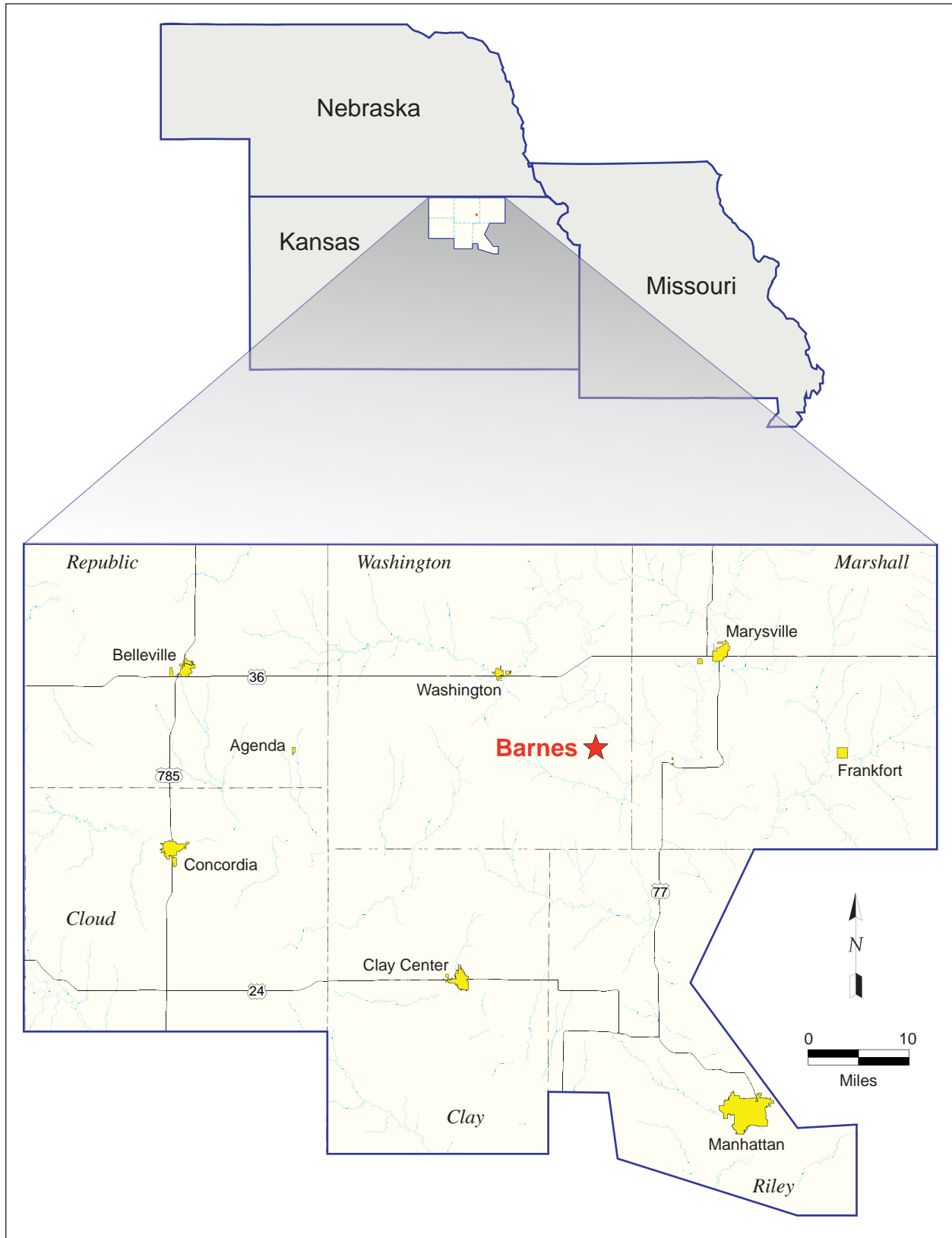


FIGURE 1.1 Location of Washington County and Barnes, Kansas.

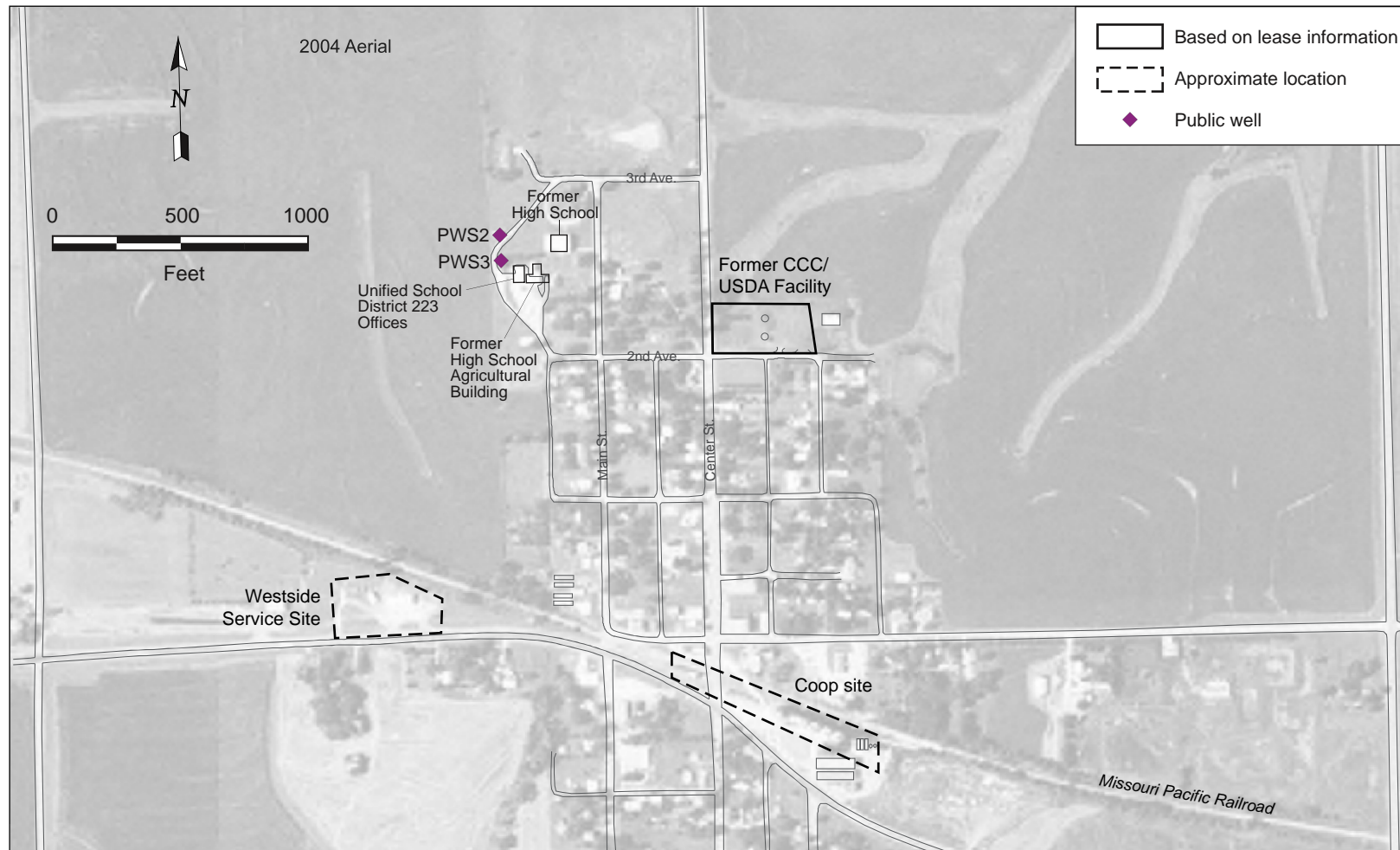


FIGURE 1.2 Locations of the former CCC/USDA facility, other relevant structures and facilities, and the public supply wells at Barnes.
Source of photograph: NAIP (2004).

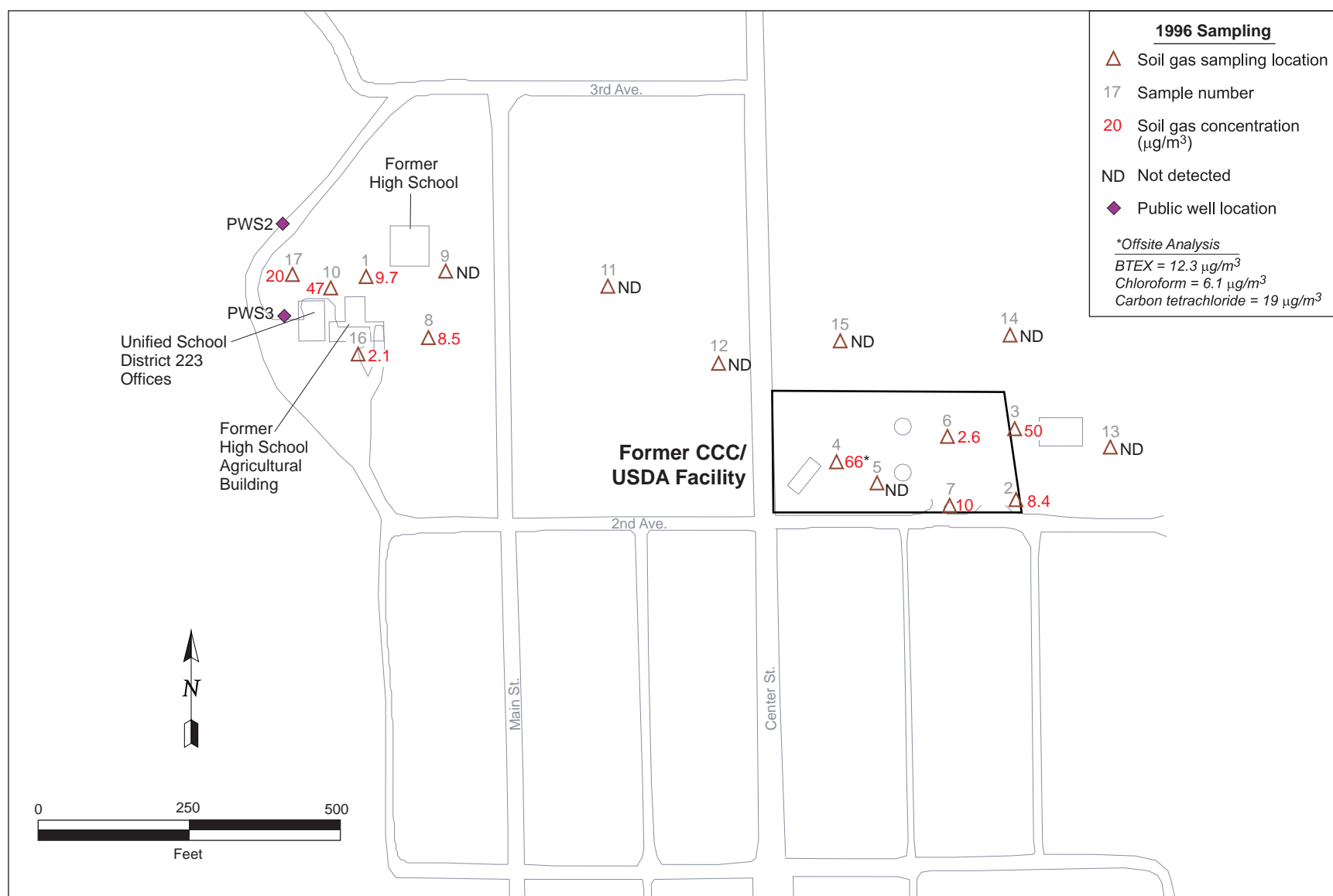


FIGURE 1.3 Carbon tetrachloride concentrations (maximum values) detected in soil gas samples during the KDHE's 1996 comprehensive investigation. Source of data: PRC (1996).

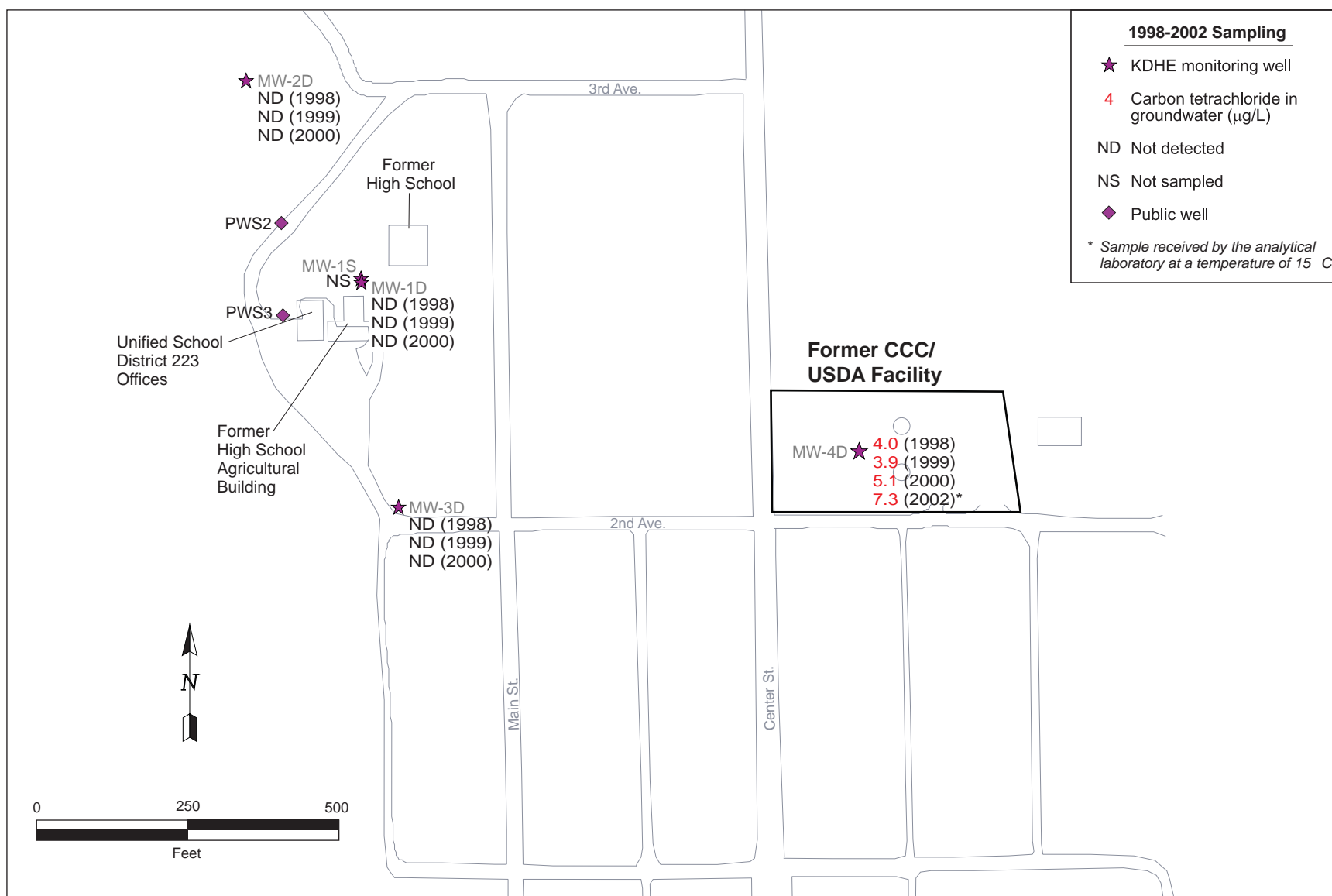


FIGURE 1.4 Carbon tetrachloride concentrations detected in groundwater in the KDHE's 1999 comprehensive investigation and subsequent sampling. Source of data: BE&K (1999, 2000); KDHE (2002).

2 Investigative Methods

The 2006-2007 investigation at Barnes was performed by using an iterative process of data collection, evaluation, and interpretation during field activities. This methodology ensured that the data necessary to achieve the specific investigation goals listed in Section 1 were obtained. Throughout data evaluation and interpretation, the CCC/USDA and the KDHE project managers were kept informed of the analytical results as they were received, and modifications to the *Work Plan* (Argonne 2006a,b) were made with their input and approval.

Throughout the field program, a comprehensive quality assurance/quality control (QA/QC) program was implemented to confirm the reliability of all information as it was accumulated. Procedures for the individual techniques employed by Argonne at this site are in the *Master Work Plan* (Argonne 2002). This section provides a brief overview of the methods used to implement the 2006-2007 investigation, and it identifies modifications made to the *Work Plan* (Argonne 2006a,b) in response to data acquired during the field work. The modifications were made with the approval of the CCC/USDA and KDHE project managers.

The primary activities during the investigation at Barnes were (1) the installation of monitoring wells through the use of sonic drilling technology; (2) the collection of soil samples from the new boreholes before well installation; and (3) the collection of groundwater samples from existing and newly installed monitoring wells, two private wells, and the two public water supply wells. All locations investigated and sampled are shown in Figure 2.1.

Field work during the 2006-2007 investigation at Barnes was conducted in four sessions, as follows:

- **First Field Session.** During initial field activities in mid July 2006, several attempts were made to use Argonne's cone penetrometer technology to collect electronic logs and soil samples; however, refusal was encountered at approximately 15-18 ft BGL. Four existing KDHE monitoring wells and the Oentrich private well were sampled.
- **Second Field Session.** During the second field session in late July-September 2006, monitoring wells MW5 and MW7-MW12 were installed by using sonic drilling technology. Groundwater samples were collected from the Sedivy

private well and the newly installed monitoring wells. Vertical-profile soil samples were collected at the locations of the newly installed monitoring wells.

- **Third Field Session.** The third field session occurred in February-March 2007. Monitoring wells MW6 and MW13-MW17 were installed by using sonic drilling technology. In addition, groundwater samples were collected from two public water supply wells and the newly installed wells. Vertical-profile soil samples were collected at the locations of the newly installed wells.
- **Fourth Field Session.** The fourth and final field session was conducted in April 2007. All monitoring wells, the Oentrich private well, and the two public water supply wells were sampled.

2.1 Methods to Determine the Subsurface Contaminant Conditions

The subsurface contaminant conditions throughout the area were determined on the basis of the soil and groundwater data collected during the 2006-2007 investigation.

To document the contaminant conditions *on the former CCC/USDA property*, soil samples were collected from 3 boreholes (MW8, MW9, MW10), and groundwater samples were collected from 1 existing monitoring well (MW4D) and 4 newly installed monitoring wells (MW8, MW9, MW10S, MW10D; Figure 2.1).

At locations *outside the former CCC/USDA property*, soil samples were collected from 10 boreholes (MW5, MW6, MW7, MW11, MW12, MW13, MW14, MW15, MW16, MW17), and groundwater samples were collected from 3 existing monitoring wells (MW1D, MW2D, MW3D), 19 newly installed monitoring wells (MW5, MW6S, MW6D, MW7, MW11S, MW11M, MW11D, MW12S, MW12M, MW12D, MW13S, MW13D, MW14S, MW14D, MW15S, MW15D, MW16S, MW16D, MW17), 2 private wells (Oentrich, Sedivy), and the 2 public water supply wells (PWS2, PWS3; Figure 2.1).

2.1.1 Methods to Identify Subsurface Soil Contamination

Across the investigation area, soil samples were collected continuously, at intervals of approximately 5 ft, at 13 locations (MW5-MW17; Figure 2.1). Samples were collected from ground surface to the top of the saturated zone or total depth at each borehole. The depth to the saturated zone was estimated on the basis of groundwater levels in nearby wells and data from soil cores. Soil samples were collected by using a 4-in.-diameter core barrel that allowed for discrete and continuous collection of samples from all boreholes. Lithologic descriptions of soil cores are in Appendix C.

Soil samples were collected in laboratory-approved containers, sealed, placed on dry ice, and transported to the Applied Geosciences and Environmental Management (AGEM) Laboratory at Argonne for preparation and analysis for volatile organic compounds (VOCs), including carbon tetrachloride, chloroform, methylene chloride, and 1,2-dichloroethane (1,2-DCA).

2.1.2 Methods to Identify Subsurface Groundwater Contamination and Install Monitoring Wells

Across the investigation area, groundwater samples were collected from 4 existing monitoring wells, 23 newly installed monitoring wells, 2 private wells, and the 2 public water supply wells (Figure 2.1).

Before groundwater samples were collected for VOCs analyses intended to yield results for the official site data set, each well was purged in accordance with procedures in the *Master Work Plan* (Argonne 2002). Groundwater samples were collected in laboratory-approved containers, sealed, placed on ice, and transported to the AGEM Laboratory for preparation and analysis for VOCs, including carbon tetrachloride, chloroform, methylene chloride, and 1,2-DCA. To aid in the selection of locations for additional new monitoring wells, some preliminary samples were collected without the standard purging or before well development was complete. The results were valuable as a guide for new installations, but they are not included in the official data set. See Section 3.4 for more information about these samples.

The new single monitoring wells were installed in 6-in.-diameter boreholes; the new dual and triple wells were installed in 9-in.-diameter boreholes. Each well was cased with 1-in.-diameter or 2-in.-diameter, Schedule 40 polyvinyl chloride with 10 ft of 0.010-in. slotted screen

placed at the bottom of the hole. Appropriate quantities of sand and grout were placed in the borehole annulus. Water well completion diagrams and water well completion records (form WWC-5) are in Appendix D. Boreholes MW5, MW7, MW8, MW9, MW16S, MW16D, and MW17 were completed as single wells. Boreholes MW6, MW10, MW13, MW14, and MW15 were completed with 2 nested wells in each, and boreholes MW11 and MW12 were completed with 3 nested wells in each. The locations of the wells are shown in Figure 2.1.

The monitoring wells were installed by Boart-Longyear through the use of sonic drilling technology. Well depths were determined by reviewing soil core and water level data from existing monitoring wells. Wells were screened at depths that indicated a potential for groundwater production. Boreholes were completed as monitoring wells as indicated above — 7 as single monitoring wells, 5 as dual nested wells, and 2 as triple nested wells.

2.2 Methods to Determine the Horizontal and Vertical Extent of Groundwater Contamination

The originally approved scope of work (Argonne 2006a) included determination of the extent and concentrations of contamination remaining on the former CCC/USDA property. This work included collection of soil and groundwater samples from select locations on the property.

The initial data collected indicated the presence of carbon tetrachloride outside the former CCC/USDA property, at concentrations above the MCL and RBSL values of 5.0 µg/L. Therefore, additional monitoring wells were installed to delineate the extent of contamination fully. This change in the scope of work (Argonne 2006b) was approved by the CCC/USDA and by the KDHE (2006c).

The horizontal and vertical extent of contamination was determined through interpretation of data collected from the newly installed monitoring wells and the existing monitoring wells. The locations investigated are shown in Figure 2.1.

2.3 Methods to Determine the Hydraulic Gradient near the Former CCC/USDA Facility

During the 2006-2007 investigation, groundwater levels in piezometers were recorded manually 10 separate times from July 2006 to May 2007. Levels were measured with an electronic meter to the nearest 0.01 ft from a surveyed reference point (the top of the casing in each well).

On January 1, 2007, Argonne placed data loggers in monitoring wells MW1D, MW2D, MW3D, MW4D, MW7, and MW9. Additional data loggers were placed in monitoring wells MW14D, MW15D, and MW16D on April 30, 2007. The data loggers have been recording water levels at 30-min intervals.

The results of the water level monitoring are presented in Section 3.5. Maps depicting hydraulic gradients developed from the data logger records are discussed in Section 4.1.

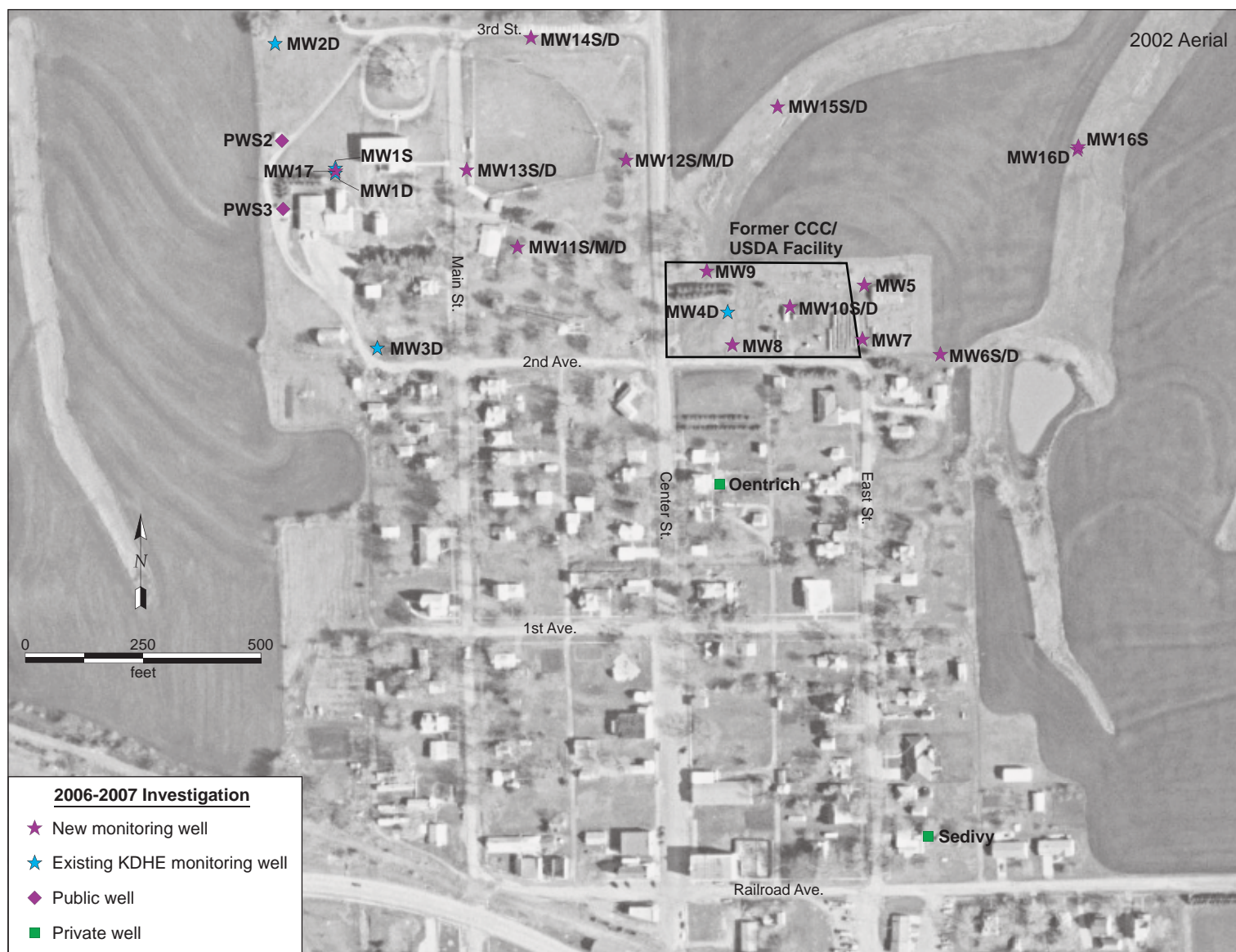


FIGURE 2.1 Locations investigated in the 2006-2007 investigation at Barnes. Source of photograph: NAPP (2002).

3 Field and Laboratory Data

This section presents the field and laboratory data generated during the Barnes investigation. A chronological summary of the field activities is in Appendix E, Table E.1. The methods and procedures followed in collecting all data are described in detail in Section 2 of the present report and in the *Master Work Plan* (Argonne 2002). A detailed interpretation of the data is in Section 4 of the present report.

3.1 Monitoring Well Construction

Sonic drilling methods were used to install 23 permanent monitoring wells at 13 distinct locations. The new monitoring wells are MW5, MW6S, MW6D, MW7, MW8, MW9, MW10S, MW10D, MW11S, MW11M, MW11D, MW12S, MW12M, MW12D, MW13S, MW13D, MW14S, MW14D, MW15S, MW15D, MW16S, MW16D, and MW17 (Figure 2.1). The construction diagrams and Kansas water well completion registrations (WWC-5 records) are in Appendix D. The wells were constructed in accordance with KDHE regulations.

3.2 Coordinates Survey Data

The subsurface soil and groundwater sampling locations were surveyed by Schwab-Eaton, P.A., Manhattan, Kansas, to provide horizontal and vertical control for stratigraphic correlation and water level monitoring. Coordinates survey data are in Appendix F, Table F.1. The reference point for horizontal coordinates at each soil boring location was a metal pin driven into the ground. The reference point for each piezometer's elevation was the top of the casing.

3.3 Analytical Data for Subsurface Soil Samples

Subsurface soil samples were collected in vertical profiles at 3 borehole locations (MW8, MW9, and MW10) on the former CCC/USDA property and at 10 boreholes locations (MW5-MW7 and MW11-MW16) outside the former CCC/USDA property (Figure 2.1). The analytical results for the soil samples are summarized in Table 3.1. Complete results of the analyses of soil samples for VOCs are in Supplement 1, Table S1.1. The supplementary material is on a compact disc (CD) inside the back cover of this report.

At each of the 13 borehole locations, discrete subsurface soil samples were collected at intervals of approximately 5 ft. The shallowest sample was collected at a depth of 3.5 ft BGL (MW14), and the deepest was at 129 ft BGL (MW13). The primary purpose was to investigate potential migration pathways for carbon tetrachloride. Locations were selected on the basis of analytical data from past and current investigations.

None of the soil samples analyzed during this investigation contained carbon tetrachloride concentrations exceeding the KDHE's RBSL of 200 µg/kg for the soil-to-groundwater protection pathway. The highest carbon tetrachloride concentration in soil (40 µg/kg) was detected at 39 ft BGL at boring location MW5, east of the former CCC/USDA property. The contaminant was found in soil throughout the vertical profile at MW5 from 28 ft to 71.5 ft BGL. At 5 additional boring locations, the presence of residual contamination was indicated by the detection of trace levels of carbon tetrachloride (below the method quantitation limit of 10 µg/kg) at 1 or 2 sampling depths within the vertical profile. Among the 5 locations with the trace-level concentrations, the highest carbon tetrachloride value (estimated at 6.8 µg/kg) occurred at the northern edge of the former CCC/USDA property, at MW9. No carbon tetrachloride was detected in soils at the remaining 7 boring locations (Table 3.1).

Chloroform was detected in soil samples from 4 boring locations (including MW5 but not MW9), at trace concentrations below the method quantitation limit of 10 µg/kg (Table 3.1). No 1,2-DCA or methylene chloride was found in any soil sample collected during the 2006-2007 investigation.

Figure 3.1 and Figure 3.2, respectively, show the highest carbon tetrachloride and chloroform concentrations detected in soils at each location investigated. The samples were prepared and analyzed for VOCs by using U.S. Environmental Protection Agency (EPA) Methods 5030B and 8260B. The complete results of analyses of soil samples for VOCs are in Supplement 1, Table S1.1. The results are summarized in Table 3.1.

TABLE 3.1 Summary of analytical results for volatile organic compounds in vertical-profile soil samples collected at Barnes in 2006-2007.

Location	Depth (ft BGL)	Number of Samples	Sampling Date	Concentration ^a (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW5	4.5-24	7	7/31/06	ND ^b	ND	ND
MW5	28	1	7/31/06	12	ND	ND
MW5	33	1	7/31/06	25	ND	ND
MW5	39	1	7/31/06	40	1.9 J ^c	ND
MW5	42.5	1	7/31/06	4.4 J	ND	ND
MW5	45.5	1	8/1/06	3.6 J	5.6 J	ND
MW5	58.8	1	8/1/06	7.4 J	ND	ND
MW5	71.5	1	8/1/06	2.3 J	6.5 J	ND
MW6	4-104	21	3/4/07	ND	ND	ND
MW7	4-41	10	8/6/06	ND	ND	ND
MW7	45	1	8/6/06	3.0 J	ND	ND
MW7	50	1	8/6/06	ND	ND	ND
MW7	54	1	8/6/06	4.9 J	1.6 J	ND
MW7	59-114	12	8/7/06	ND	ND	ND
MW8	4-17	4	8/5/06	ND	ND	ND
MW8	23	1	8/5/06	ND	1.5 J	ND
MW8	29-43.5	5	8/5/06	ND	ND	ND
MW8	49	1	8/5/06	3.1 J	ND	ND
MW8	54-108	12	8/5/06-8/6/06	ND	ND	ND
MW9	5-35	8	8/2/06-8/4/06	ND	ND	ND
MW9	38	1	8/4/06	6.8 J	ND	ND
MW9	41.5-94.5	13	8/4/06-8/5/06	ND	ND	ND
MW10	4-27	6	8/17/06	ND	ND	ND
MW10	31	1	8/17/06	2.2 J	1.0 J	ND
MW10	35.5-101	16	8/17/06-8/18/06	ND	ND	ND
MW11	5-105	20	9/6/06-9/7/06	ND	ND	ND
MW12	4-99	21	9/8/06-9/9/06	ND	ND	ND
MW12	104	1	9/9/06	2.2 J	ND	ND
MW12	109-114	2	9/9/06	ND	ND	ND
MW13	4-129	27	2/27/07-2/28/07	ND	ND	ND
MW14	3.5-122	25	3/2/07	ND	ND	ND
MW15	4-104	21	3/6/07	ND	ND	ND
MW16	4-70	13	3/8/07	ND	ND	ND
MW17	5-120	24	3/9/07-3/10/07	ND	ND	ND

^a 1,2-Dichloroethane was not detected in any soil sample at an instrument detection limit of 1.0 µg/kg.

^b ND, contaminant not detected at an instrument detection limit of 1.0 µg/kg.

^c Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 10 µg/kg.

3.4 Analytical Data for Groundwater Samples

A total of 38 groundwater samples were collected from monitoring wells, private wells, and public water supply wells that had been developed and purged according to specifications in the *Master Work Plan* (Argonne 2002) prior to sampling. The results for these samples constitute the official groundwater data set for the 2006-2007 investigation.

Additional groundwater samples were collected for rapid field evaluation. These samples were generally collected immediately after monitoring wells were completed, before full development or purging. Groundwater samples were collected from the newly completed monitoring wells to identify potential migration pathways and define the lateral extent of contamination in groundwater, as well as to establish groundwater level monitoring points. The results are not included in the official groundwater data set. The wells were sampled subsequently after full development and purging.

Analytical results for VOCs in the groundwater samples collected during the 2006-2007 investigation from fully completed, fully purged wells are in Table 3.2. The lateral and vertical distributions of carbon tetrachloride and chloroform in these samples are shown in Figure 3.3 and Figure 3.4, respectively. Sample descriptions are in Table E.1 in Appendix E. The field measurements made during sampling are on CD, in Table S2.1 of Supplement 2. The results of analyses of these samples for nitrate-nitrite nitrogen are in Table S2.2 of Supplement 2 (on CD).

Locations for groundwater sampling were selected on the basis of (1) analytical data from past investigations, (2) current data for the field evaluation samples collected from newly completed monitoring wells, and (3) a review of areas where grain handling was thought to have occurred on the former CCC/USDA property. Sampling locations were approved by the CCC/USDA and KDHE project managers.

On the former CCC/USDA property, 6 groundwater samples were collected from 5 monitoring wells (MW4D, MW8, MW9, MW10S, MW10D) at depths from 93 ft to 125 ft BGL. At locations outside the former CCC/USDA property, 23 groundwater samples were collected from 20 monitoring wells (MW1D, MW2D, MW3D, MW5, MW6D, MW7, MW11S, MW11M, MW11D, MW12M, MW12D, MW13S, MW13D, MW14S, MW14D, MW15S,

TABLE 3.2 Analytical results for volatile organic compounds in groundwater samples collected at Barnes in 2006-2007.^a

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration ^b (µg/L)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
Existing KDHE monitoring wells						
MW1S	Not sampled (well dry)	13.3-23.3	7/19/06	—	—	—
MW1S	Not sampled (well dry)	13.3-23.3	4/4/07	—	—	—
MW1D	BAMW1D-W-21688	139.8-159.4	7/19/06	1	ND ^c	ND
MW1D	BAMW1D-W-22565	139.8-159.4	4/4/07	1.2	ND	ND
MW2D	BAMW2D-W-21687	133.3-152.9	7/19/06	ND	ND	ND
MW2D	BAMW2D-W-22564	133.3-152.9	4/4/07	ND	ND	ND
MW3D	BAMW3D-W-21686	133.0-152.7	7/19/06	ND	ND	ND
MW3D	BAMW3D-W-22567	133.0-152.7	4/4/07	ND	ND	ND
MW4D	BAMW4D-W-21690	98.4-118.2	7/20/06	2.1	ND	ND
MW4D	BAMW4D-W-22583	98.4-118.2	4/6/07	3.5	0.1 J ^d	ND
Monitoring wells installed during the 2006-2007 investigation						
MW5	BAMW5-W-22589	110-120	4/6/07	0.6 J	ND	ND
MW6S	Not sampled (well dry)	90.5-100.5	4/4/07	—	—	—
MW6D	BAMW6D-W-22573	105-115	4/5/07	ND	ND	ND
MW7	BAMW7-W-22588	116-126	4/6/07	1.0	ND	ND
MW8	BAMW8-W-22584	110-120	4/6/07	14	0.7 J	ND
MW9	BAMW9-W-22582	100-110	4/5/07	1.0	ND	ND
MW10S	BAMW10S-W-22586	93-103	4/6/07	20	1.4	ND
MW10D	BAMW10D-W-22585	115-125	4/6/07	2.4	0.2 J	ND
MW11S	BAMW11S-W-22570	40-50	4/4/07	ND	1.1	ND
MW11M	BAMW11M-W-22572	90-100	4/5/07	ND	ND	ND
MW11D	BAMW11D-W-22571	125-135	4/4/07	1.1	ND	ND
MW12S	Not sampled (well dry)	43-53	4/5/07	—	—	—
MW12M	BAMW12M-W-22580	90-100	4/5/07	20	4.2	ND
MW12D	BAMW12D-W-22576	115-125	4/5/07	0.6 J	ND	ND
MW13S	BAMW13S-W-22575	112-122	4/5/07	21	1.6	ND
MW13D	BAMW13D-W-22574	127-137	4/5/07	3.5	0.4 J	ND
MW14S	BAMW14S-W-22569	108-118	4/4/07	0.9 J	ND	ND
MW14D	BAMW14D-W-22568	123-133	4/4/07	1.2	ND	ND
MW15S	BAMW15S-W-22560	88-98	4/4/07	1.5	ND	ND
MW15D	BAMW15D-W-22561	105-115	4/4/07	ND	ND	ND

TABLE 3.2 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration ^b (µg/L)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW16S	BAMW16S-W-22563	76-86	4/4/07	ND	ND	ND
MW16D	BAMW16D-W-22562	90-100	4/4/07	ND	ND	ND
MW17	BAMW17D-W-22566	120-130	4/4/07	ND	ND	ND
<i>Private wells</i>						
Oentrich	BAOENT-W-21693	150	7/20/06	0.3 J	ND	ND
Oentrich	BAOENT-W-21713	150	8/2/06	0.6 J	ND	ND
Oentrich	BAOENTRICH-W-22579	150	4/5/07	0.6 J	ND	ND
Sedivy	BACW-W-21849	138	8/22/06	ND	ND	ND
Sedivy	BASED2-W-21913	138	9/13/06	ND	ND	ND
Sedivy1	Not sampled (well dry)	90	9/13/06	—	—	—
<i>Public wells</i>						
PWS2	BAPWS2-W-22510	155	3/9/07	ND	ND	ND
PWS2	BAPW2-W-22578	155	4/5/07	ND	ND	ND
PWS3	BAPWS3-W-22511	160	3/9/07	0.2 J	ND	ND
PWS3	BAPW3-W-22577	160	4/5/07	ND	ND	ND

^a The 2006-2007 investigation at Barnes was conducted in four field sessions, as follows:

- The first field session, in mid July 2006, involved sampling of existing KDHE monitoring wells and two private wells.
- The second session, in late July-September 2006, involved the installation and development of new monitoring wells at locations MW5, MW7, MW10, MW11, and MW12.
- The third session, in February-March 2007, involved installation and development of monitoring wells at locations MW6, MW13, MW14, MW15, MW16, and MW17.
- The fourth session, in April 2007, involved sampling of public wells and the monitoring well network.

^b 1,2-Dichloroethane was not detected in any groundwater sample at an instrument detection limit of 0.1 µg/L.

^c ND, contaminant not detected at an instrument detection limit of 0.1 µg/L.

^d Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 1.0 µg/L.

^e Sedivy1 well is in the residence's backyard.

MW15D, MW16S, MW16D, MW17). Three wells (MW1S, MW6S, MW12S) were dry and could not be sampled. In addition, 9 groundwater samples were collected outside the former CCC/USDA property from 2 private wells (Oentrich and Sedivy) and the 2 public water supply wells. The “Sedivy1” well in the residence’s backyard (see Table 3.2) was dry and could not be sampled.

All groundwater samples were analyzed for VOCs by using EPA Method 524.2. Complete results for VOCs in groundwater samples collected after full development and purging are in Table 3.2. Carbon tetrachloride was detected at or above the AGEM Laboratory method quantitation limit of 1.0 µg/L in groundwater samples collected from monitoring wells MW1D, MW4D, MW7, MW8, MW9, MW10S, MW10D, MW11D, MW12M, MW13S, MW13D, MW14D, and MW15S (Figure 3.3). In addition, trace levels of carbon tetrachloride (below the method quantitation limit) were detected in groundwater samples from monitoring wells MW5, MW12D, and MW14S; the Oentrich private well; and public water supply well PWS3.

Only 4 groundwater samples collected from monitoring wells contained carbon tetrachloride at concentrations exceeding the MCL and RBSL values of 5.0 µg/L for this compound. These samples were collected from MW8 (14 µg/L), MW10S (20 µg/L), MW12M (20 µg/L), and MW13S (21 µg/L). Wells MW8 and MW10S are on the former CCC/USDA property; wells MW12M and MW13S lie to the northwest.

Chloroform was detected at or above the method quantitation limit of 1.0 µg/L in 4 groundwater samples from monitoring wells MW10S, MW11S, MW12M, and MW13S, as well as at trace levels below the quantitation limit in samples from MW4D, MW8, MW10D, and MW13D. All of the chloroform concentrations were below the MCL and RBSL values of 80 µg/L for this compound.

No VOCs were detected in groundwater samples from monitoring wells MW2D, MW3D, MW6D, MW11M, MW15D, MW16S, MW16D, and MW17; the Sedivy private well; and public water supply well PWS2. Neither methylene chloride nor 1,2-DCA was found in any groundwater sample collected during this investigation.

3.5 Groundwater Flow Direction and Water Level Data

The groundwater gradient in the general investigation area has historically been reported as being toward the northeast (BE&K 1999, 2000). In July 2006 through May 2007, groundwater levels in monitoring wells and private wells were recorded manually with an electronic meter 10 separate times. Static water levels measured manually on these dates are on CD, in Table S3.1 of Supplement 3.

On January 1, 2007, Argonne placed data loggers in monitoring wells MW1D, MW2D, MW3D, MW4D, MW7, and MW9. Additional data loggers were placed in monitoring wells MW14D, MW15D, and MW16D on April 30, 2007. The data loggers have been recording water levels continuously at 30-min intervals. The complete set of water levels recorded by the data loggers from January 1, 2007, to May 10, 2007, is on CD in Supplement 3, Table S3.2. Maps depicting hydraulic gradients developed from the data logger records are discussed in Section 4.1.

3.6 Results of Quality Control Activities

The QA/QC procedures for sample collection, handling, and analysis during the 2006-2007 investigation are described in detail in the *Master Work Plan* (Argonne 2002). A detailed QA/QC report addressing activities related to sample collection, handling, and analysis during the investigation is on CD, in Supplement 4.

Results of QA/QC activities are summarized as follows:

- Sample integrity was maintained successfully throughout the collection, shipping, and analysis activities through documentation of samples as they were collected and the use of custody seals and chain-of-custody records.
- All samples were received with custody seals intact and at appropriate preservation conditions. All samples were analyzed within the required holding times. Carbon tetrachloride and chloroform were not detected in laboratory method blanks.

- As an indicator of cross-contamination, 40 trip blanks were prepared and included in containers of soil or water samples shipped for organic analyses. Neither carbon tetrachloride nor chloroform was detected in trip blanks shipped with samples for VOCs analyses.
- Two equipment rinsates and two field blanks were collected to represent water used during equipment decontamination and drilling. Carbon tetrachloride was not detected in the field blanks; however, chloroform was detected at trace levels below the method quantitation limit of 1.0 µg/L.
- Soil and groundwater samples were analyzed for carbon tetrachloride and chloroform at the AGEM Laboratory by using the purge-and-trap method. Dual analyses of samples indicated consistency in the sampling and analytical methodologies. Dual analyses involved either analyses of replicate samples submitted to the laboratory or duplicate analyses of samples selected by the laboratory. Consistency in both the sampling and analytical methodologies is indicated. The data from the AGEM Laboratory are acceptable for quantitative determination of contaminant distribution.
- The analyses of water samples at the AGEM Laboratory with EPA Method 524.2 were verified at a second laboratory with EPA-defined Contract Laboratory Program (CLP) methodology. Of the 38 groundwater samples and replicates analyzed by the AGEM Laboratory, 5 (13%) were also analyzed with CLP methodology by EnviroSystems, Inc., in Columbia, Maryland. Agreement was good over the range of contaminant concentrations detected. Samples analyzed at the AGEM Laboratory were analyzed by the CLP laboratory with similar results. Outside laboratory data are on CD, in Supplement 5.
- The analyses of soil samples by the AGEM Laboratory with EPA Method 8260B were verified by a second laboratory (Severn-Trent Laboratories, Inc., Colchester, Vermont) with the same analytical method. Of the 282 soil samples analyzed by the AGEM Laboratory, 28 (10%) were also analyzed by Severn-Trent. Agreement was good over the range of contaminant concentrations detected. Soil samples analyzed by the AGEM

Laboratory were analyzed by Severn-Trent with similar results. Outside laboratory data are on CD, in Supplement 5.

3.7 Waste Characterization, Handling, and Disposal

With the concurrence of the KDHE (2007b), wastewater generated during field activities was discharged on-site after laboratory analysis confirmed that the carbon tetrachloride contaminant levels (not detected to 2.8 µg/L) were below the MCL and RBSL values of 5.0 µg/L (Table S4.2 in Supplement 4, on CD). Soil from drilling activities was stored on-site in containers during drilling. The soil was subsequently tested for carbon tetrachloride and chloroform concentrations and taken to the Rolling Meadows Landfill in Topeka, Kansas. A Special Waste Disposal Authorization was obtained from the KDHE prior to disposal (Supplement 6, on CD).

3.8 Analytical Data Summary

The data collected during the 2006-2007 investigation address the objectives detailed in the KDHE-approved site-specific *Work Plan* and modifications (Argonne 2006a,b). Key analytical results are as follows:

- Carbon tetrachloride was detected at or above the AGEM Laboratory method quantitation limit of 10 µg/kg in 3 of the 282 soil samples collected. All 3 of these samples were collected at the MW5, east of the former CCC/USDA property. The highest carbon tetrachloride concentration found in soil at the MW5 location, 40 µg/kg, occurred at 39 ft BGL. None of the concentrations in soil exceeded the RBSL of 200 µg/kg for the soil-to-groundwater protection pathway.
- Chloroform was detected in 6 soil samples (from 4 locations) at trace concentrations below the AGEM Laboratory method quantitation limit of 10 µg/kg. All other soil samples contained no detectable concentrations of chloroform.

- Carbon tetrachloride was detected above the AGEM Laboratory method quantitation limit of 1.0 µg/L in 15 of the 38 groundwater samples collected.
- Trace concentrations of carbon tetrachloride (below the AGEM Laboratory method quantitation limit of 1.0 µg/L) were detected in 7 groundwater samples, and 16 samples showed no detectable concentrations.
- Carbon tetrachloride was detected at or above the MCL and RBSL values of 5.0 µg/L in 4 groundwater samples (14 µg/L at 110-120 ft BGL in MW8, 20 µg/L at 93-103 ft BGL in MW10S, 20 µg/L at 90-100 ft BGL in MW12M, and 21 µg/L at 112-122 ft BGL in MW13S). Wells MW8 and MW10S are on the former CCC/USDA property, and MW12M and MW13S are northwest of the former property.
- Chloroform was detected above the AGEM Laboratory method quantitation limit of 1.0 µg/L in 4 of the 38 groundwater samples collected. The highest concentration detected was 4.2 µg/L, in a sample collected at 90-100 ft BGL in MW12M. None of the concentrations exceed the MCL and RBSL values of 80 µg/L for this compound.
- Trace concentrations of chloroform (below the AGEM Laboratory method quantitation limit of 1.0 µg/L) were detected in 4 groundwater samples, and 30 samples showed no detectable concentrations.
- Neither 1,2-DCA nor methylene chloride was detected in soil or groundwater samples collected during the 2006-2007 investigation.

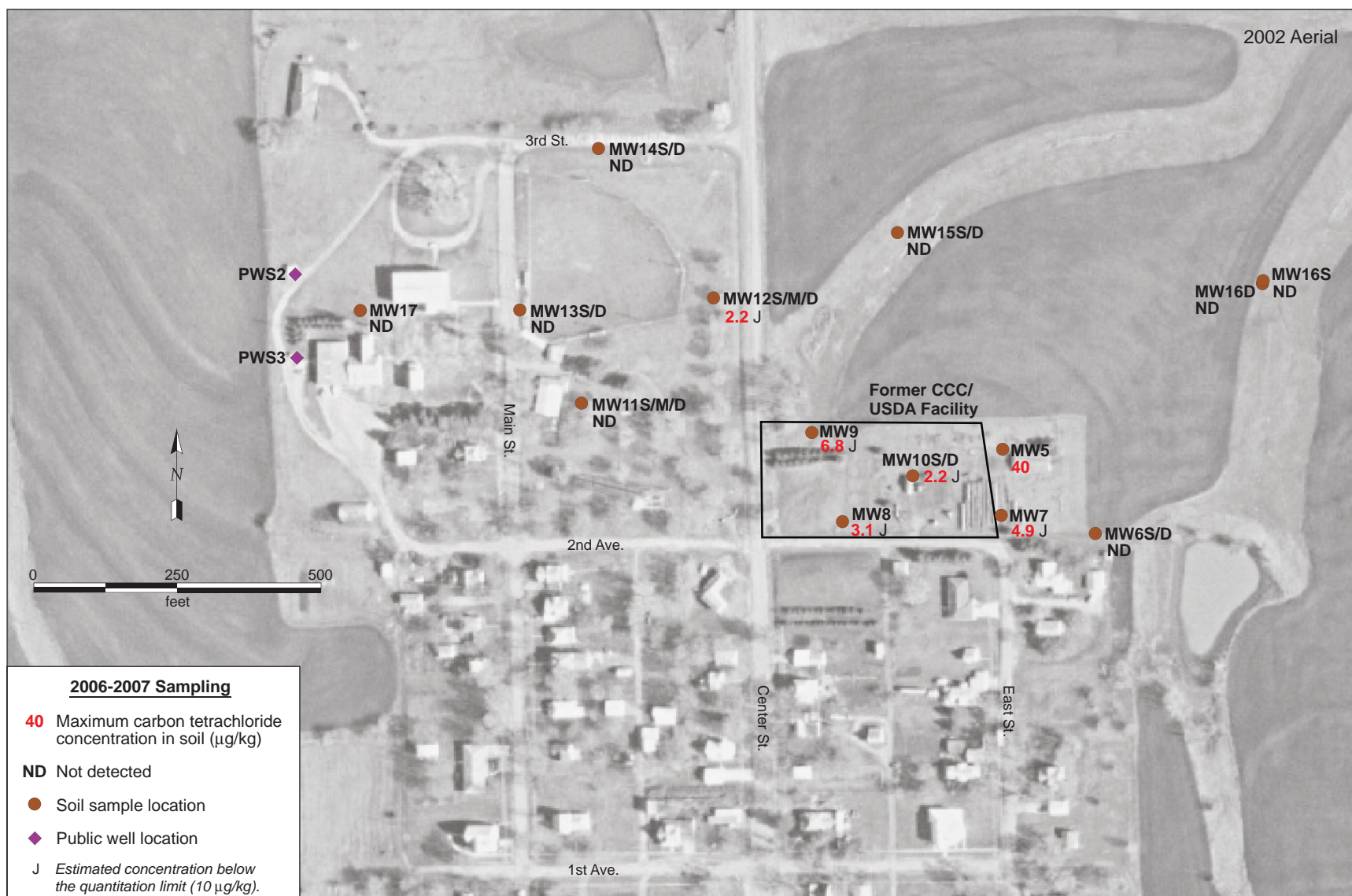


FIGURE 3.1 Analytical results for carbon tetrachloride (maximum at each location) in soil samples collected during the 2006-2007 investigation at Barnes. Source of photograph: NAPP (2002).

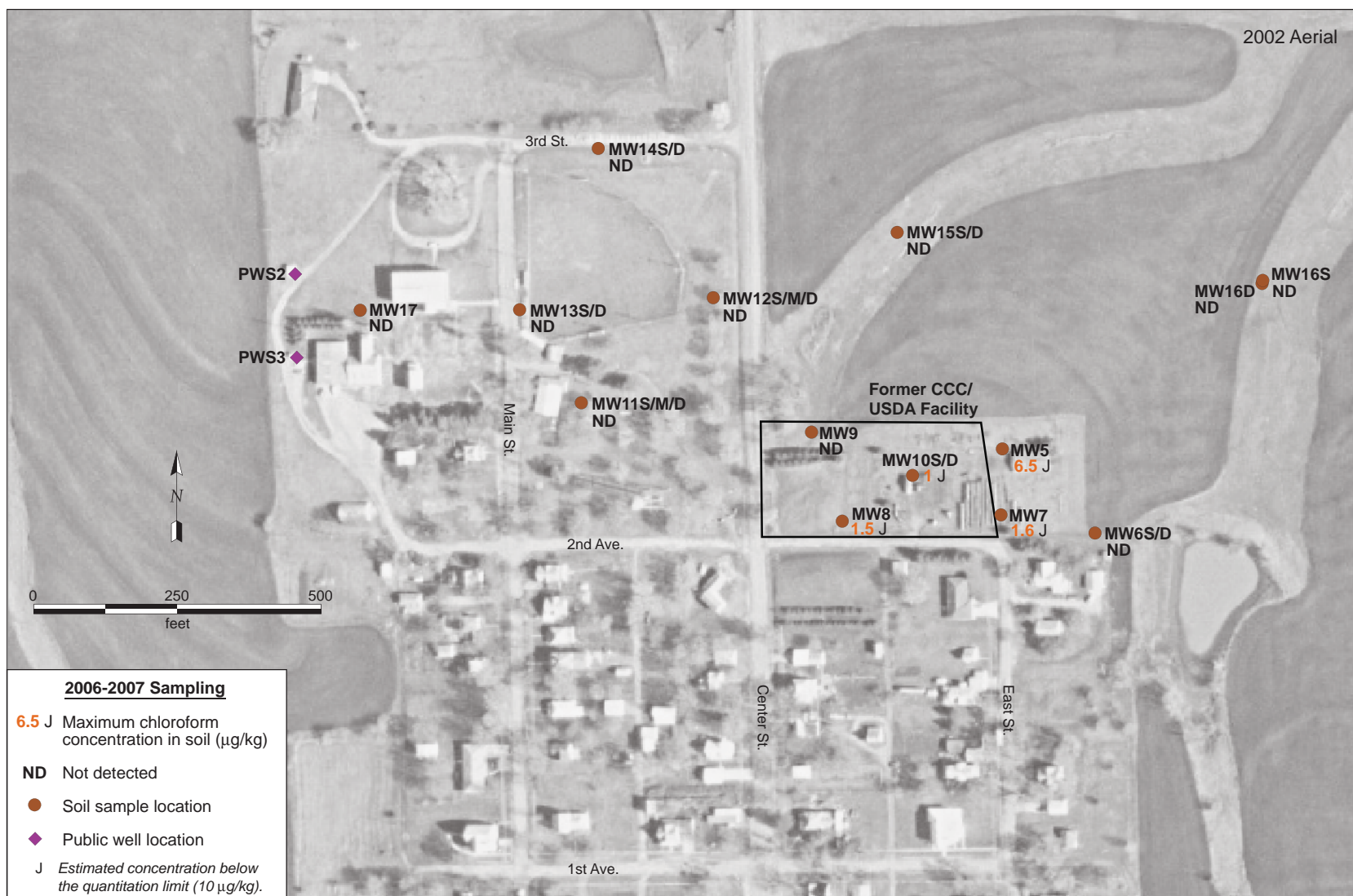


FIGURE 3.2 Analytical results for chloroform (maximum at each location) in soil samples collected during the 2006-2007 investigation at Barnes. Source of photograph: NAPP (2002).

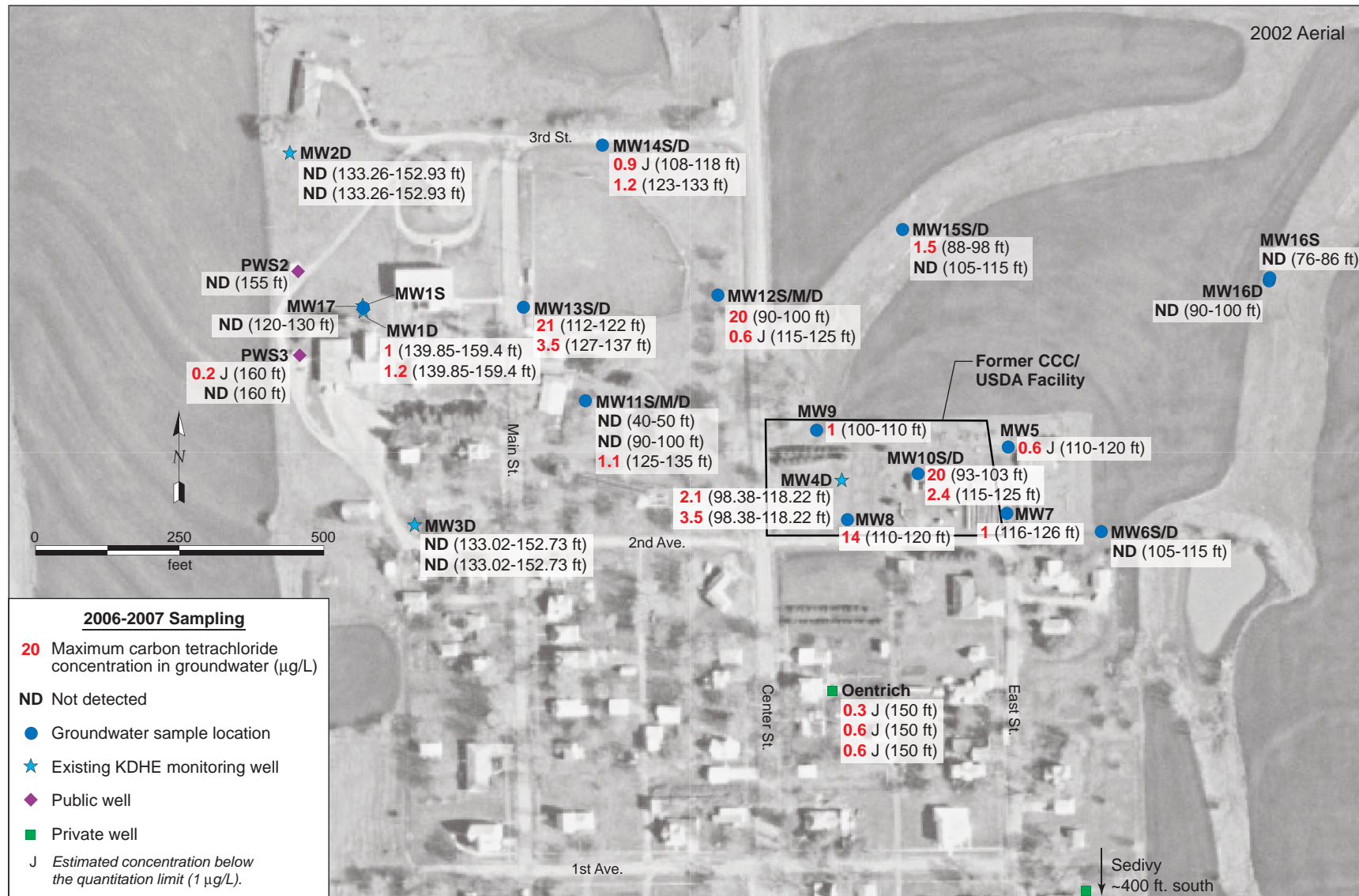


FIGURE 3.3 Analytical results for carbon tetrachloride in groundwater samples collected during the 2006-2007 investigation at Barnes. Source of photograph: NAPP (2002).

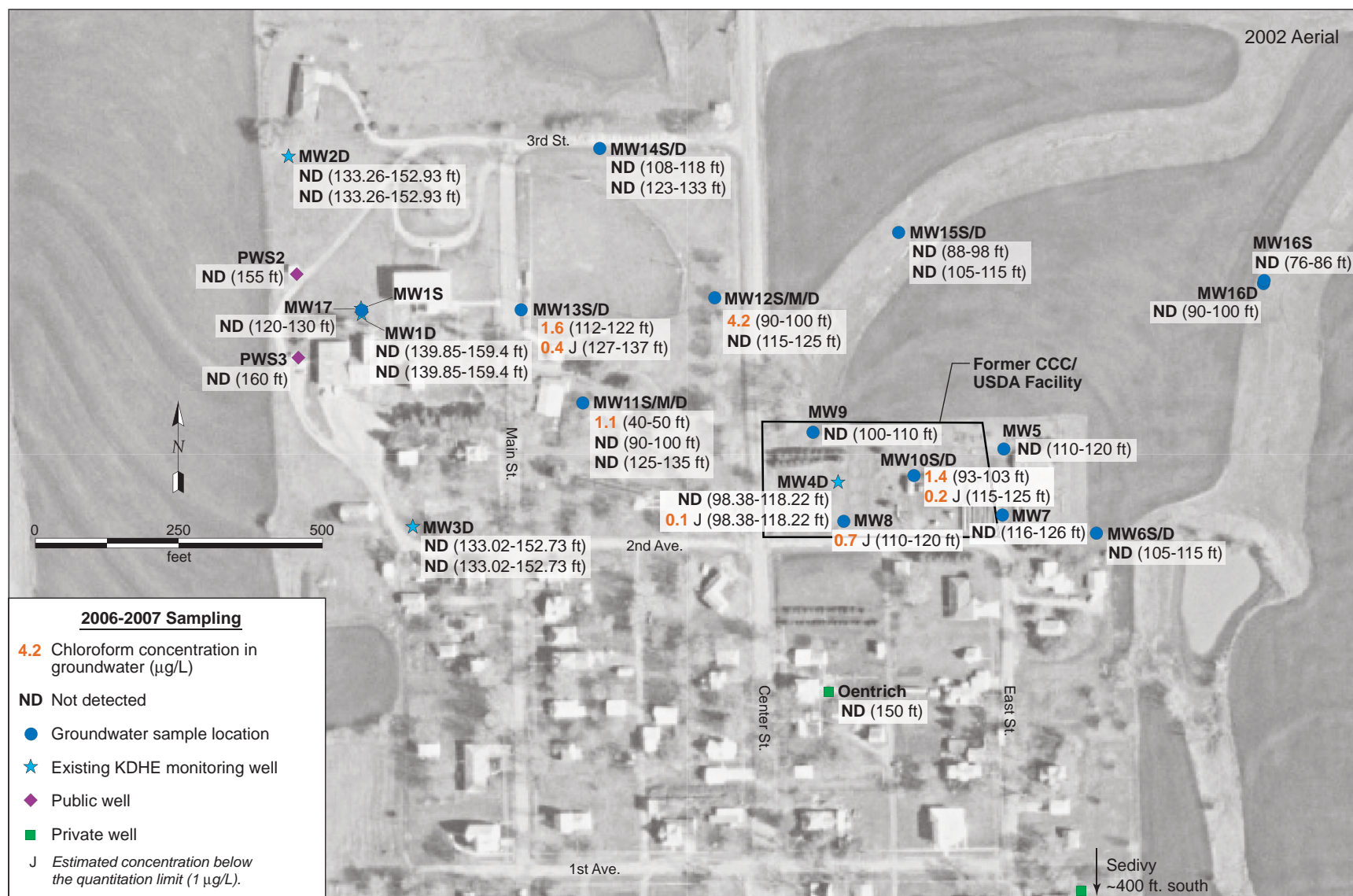


FIGURE 3.4 Analytical results for chloroform in groundwater samples collected during the 2006-2007 investigation at Barnes. Source of photograph: NAPP (2002).

4 Data Interpretation

The primary purposes of the 2006-2007 investigation at Barnes were to define the extent of previously identified carbon tetrachloride contamination, determine the hydraulic gradient in groundwater, and expand the monitoring well network. The results of the investigation are detailed below.

4.1 Geologic and Hydrogeologic Conditions

Barnes lies in a transition zone between the Flint Hills and the glaciated region. The area's topography consists of gently sloping hills of Pleistocene loess (with variations in elevation < 50 ft) overlying a shale unit and interbedded shale, limestone, and siltstone of the Permian Chase Group. Groundwater for the public water supply is produced from the bedrock aquifer of the Chase Group.

The site lithology was identified through the collection of core samples from monitoring wells MW5-MW17. Included in Appendix C are the detailed descriptions. Four stratigraphic cross sections were developed from the lithologic descriptions. The locations are shown in Figure 4.1. The cross sections are included as Figures 4.2-4.5.

The predominant lithology consists of a thin layer of silty clay to clayey silt with fine sand in the upper 2-20 ft. This layer is underlain by highly weathered shale interbedded with thin layers of fractured limestone at depths ranging from approximately 18 ft BGL at MW8 to 132 ft BGL at MW13. Groundwater was encountered predominantly in the limestone layers. Monitoring wells were screened in the limestone layers in all wells except MW14 and MW15. These two locations did not exhibit limestone at depths greater than 58.5 ft BGL.

The monitoring wells were screened at various depths, with several locations being completed as nested wells to enable determination of contaminant migration pathways and contaminant concentrations in groundwater at depths where the presence of a water-bearing zone was indicated. The stratigraphic cross sections (Figures 4.2-4.5) depict the screened depths in the monitoring wells.

Drawdown was observed in all monitoring wells when the public water supply wells were pumping. This phenomenon is illustrated for the months of January-April 2007 in Figure 4.6. Also observed in April 2007 was a rise in the water table from approximately April 15 to April 30. This rise was probably due to significant rains during this period.

The historical data for existing KDHE monitoring wells indicated a northeasterly groundwater flow direction (BE&K 1999, 2000). In contrast, the groundwater levels measured by data loggers in 2007 indicate northwesterly flow when the public water supply wells are pumping. Under non-pumping conditions (Figure 4.7, left panels), the flow between the former CCC/USDA property and the public wells appears to be somewhat radial, away from an area of relatively higher water levels across the southwest and central portions of the town. Under these conditions, the hydraulic gradients, especially across the central part of the study area, are quite low, and the apparent flow direction varies from location to location. These results suggest that, at least locally, the apparent flow direction toward the northeast — proposed on the basis of work conducted for the KDHE in 1999-2000 — is possible, though transient. Nevertheless, the 2007 results indicate an apparent gradient that is stronger and much more consistently toward the pumping wells when they are operating (Figure 4.7, right panels).

Relatively little movement of the plume in the area between the public wells and the former CCC/USDA property might be expected under non-pumping conditions, though the variable (low) gradients at these times could, in part, account for the relatively broad distribution of low carbon tetrachloride concentrations along the flanks of the main migration pathway toward the public wells.

4.2 Subsurface Contaminant Conditions

The methods described in Section 2 were used to collect soil samples from 13 boreholes and groundwater samples from 23 newly installed monitoring wells, 4 existing KDHE monitoring wells, 2 private wells, and the 2 public water supply wells.

Soil samples from only one location (MW5, outside the former CCC/USDA property) contained low concentrations of carbon tetrachloride in the vadose zone (Figure 3.1). Carbon tetrachloride was detected in soils at location MW5 at concentrations above the method quantitation limit of 10 µg/kg at depths of 28-39 ft BGL. The concentrations found, 12-40 µg/kg, do not exceed the RBSL of 200 µg/kg established by the KDHE for the soil-to-groundwater protection pathway. The depths at which soil contamination was detected at MW5 do not definitively indicate that a source area exists at this location. Trace levels of carbon tetrachloride and chloroform (below the method quantitation limit of 10 µg/kg) were also detected at location MW5, at depths of 39-71.5 ft BGL. Concentrations of carbon tetrachloride in soil at this location generally decreased with depth, while chloroform concentrations increased with depth (Figure 4.8). This observation would indicate a potential for natural degradation.

On the former CCC/USDA property, carbon tetrachloride was detected in soil at trace concentrations ($< 10 \mu\text{g/kg}$) at locations MW8, MW9, and MW10. These low concentrations on the former CCC/USDA property do not indicate that a source area exists at these locations and would not result in higher concentrations in groundwater. Therefore, the soil on that property is not considered to be an ongoing significant source for carbon tetrachloride contamination.

The analytical data for groundwater samples from the monitoring wells indicate that the full extent of carbon tetrachloride contamination (at concentrations above the MCL and RBSL values of $5.0 \mu\text{g/L}$) has been delineated. The most significantly impacted area follows a narrow line through wells MW8, MW10S, MW12M, and MW13S (Figure 4.9). The concentrations of carbon tetrachloride detected ranged from $14 \mu\text{g/L}$ in MW8 to $21 \mu\text{g/L}$ in MW13S, at depths ranging from 90 ft BGL in MW12M to 122 ft BGL in MW13S. Wells MW8 and MW10S are on the former CCC/USDA property. Wells MW12M and MW13S are to the northwest, between the former CCC/USDA property and the public water supply wells. Figure 4.9 shows the interpreted carbon tetrachloride plume. Figures 3.3 and 3.4 show the concentrations of carbon tetrachloride and chloroform detected at each location.

Trace to low concentrations of carbon tetrachloride (below the MCL and RBSL values of $5.0 \mu\text{g/L}$) were also detected in groundwater from monitoring wells MW1D, MW4D, MW5, MW7, MW9, MW10D, MW11D, MW12D, MW13D, MW14S, MW14D, and MW15S; the Oentrich private well; and public well PWS3. No detectable levels of carbon tetrachloride were found in monitoring wells MW2D, MW3D, MW6D, MW11S, MW11M, MW15D, MW16S, MW16D, and MW17; the Sedivy private well; and public well PWS2. All of these wells with no detectable carbon tetrachloride lie on the perimeter of the investigation area. The results indicate that the lateral extent of contamination was delineated during the 2006-2007 investigation.

Trace to low concentrations of chloroform were detected in 8 monitoring wells, at concentrations ranging from $0.1 \mu\text{g/L}$ to $4.2 \mu\text{g/L}$. None of these concentrations exceed the RBSL of $80 \mu\text{g/L}$. The higher chloroform concentrations occurred in the wells northwest of the former CCC/USDA facility, with the maximum concentration of $4.2 \mu\text{g/L}$ being detected in MW12M.

The analytical results for groundwater samples indicate that contaminant migration is influenced by the pumping of the public water supply wells and that migration pathways are generally associated with the thin limestone layers encountered at various depths. The data further indicate the presence of soil and groundwater contamination both on and outside the former CCC/USDA property; however, the concentrations are relatively low and have not impacted the public water supply wells significantly to date.

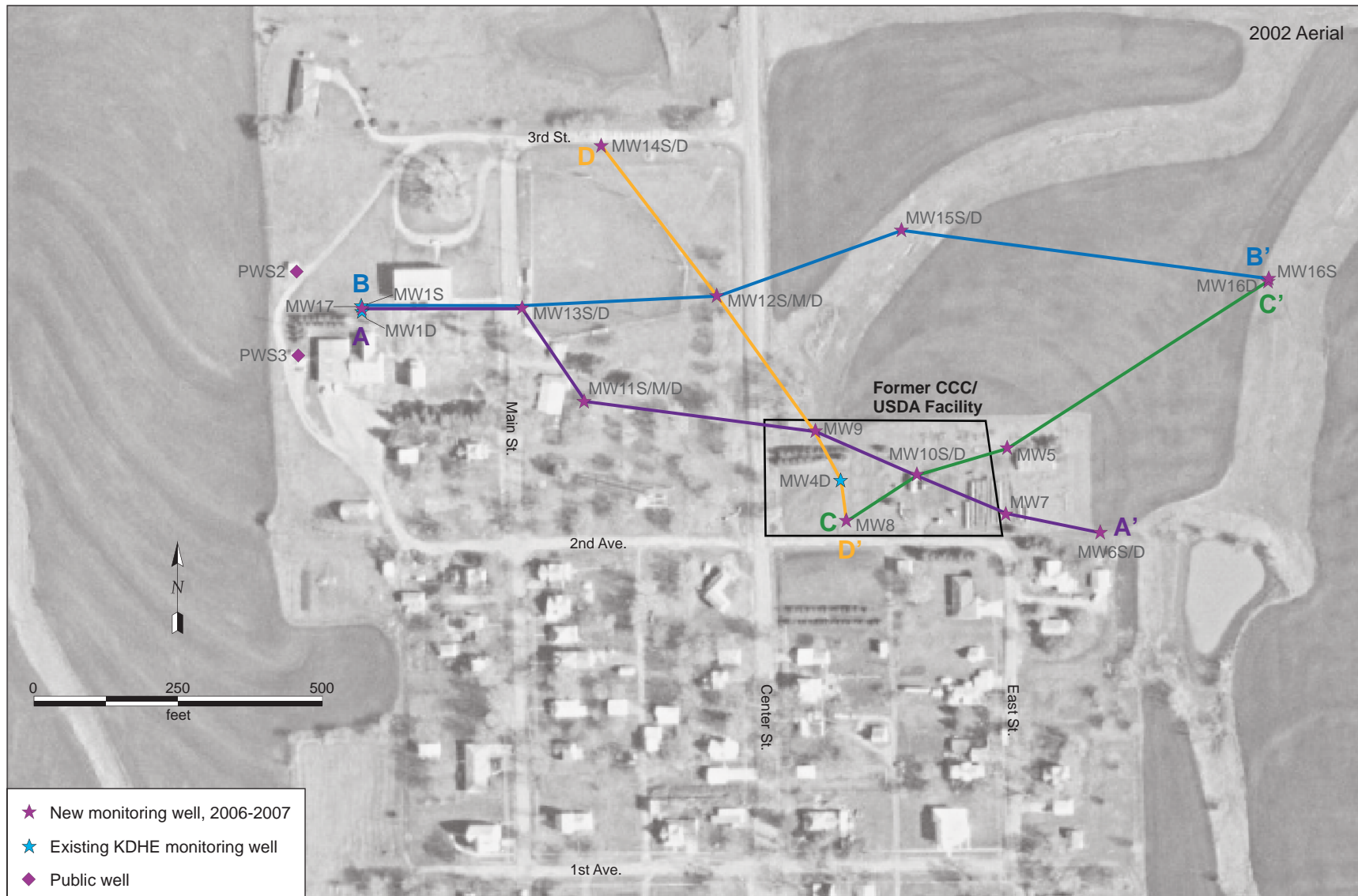


FIGURE 4.1 Locations of interpretive hydrogeologic cross sections. Source of photograph: NAPP (2002).

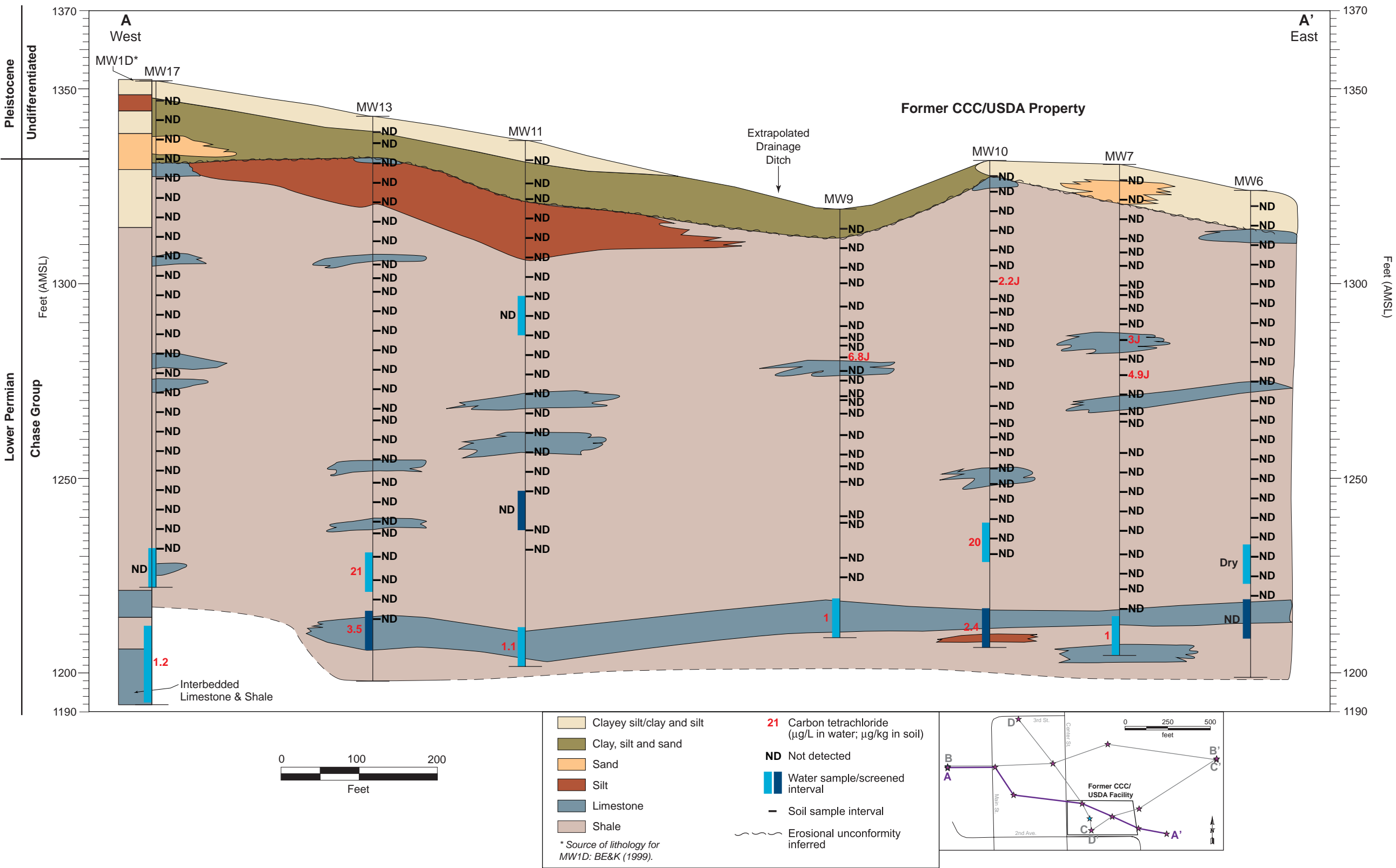
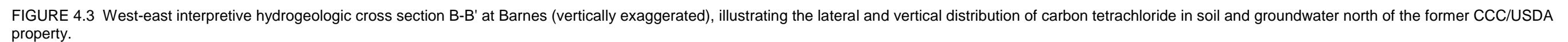


FIGURE 4.2 West-east interpretive hydrogeologic cross section A-A' across the former CCC/USDA grain storage property at Barnes (vertically exaggerated), illustrating the lateral and vertical distribution of carbon tetrachloride in soil and groundwater.



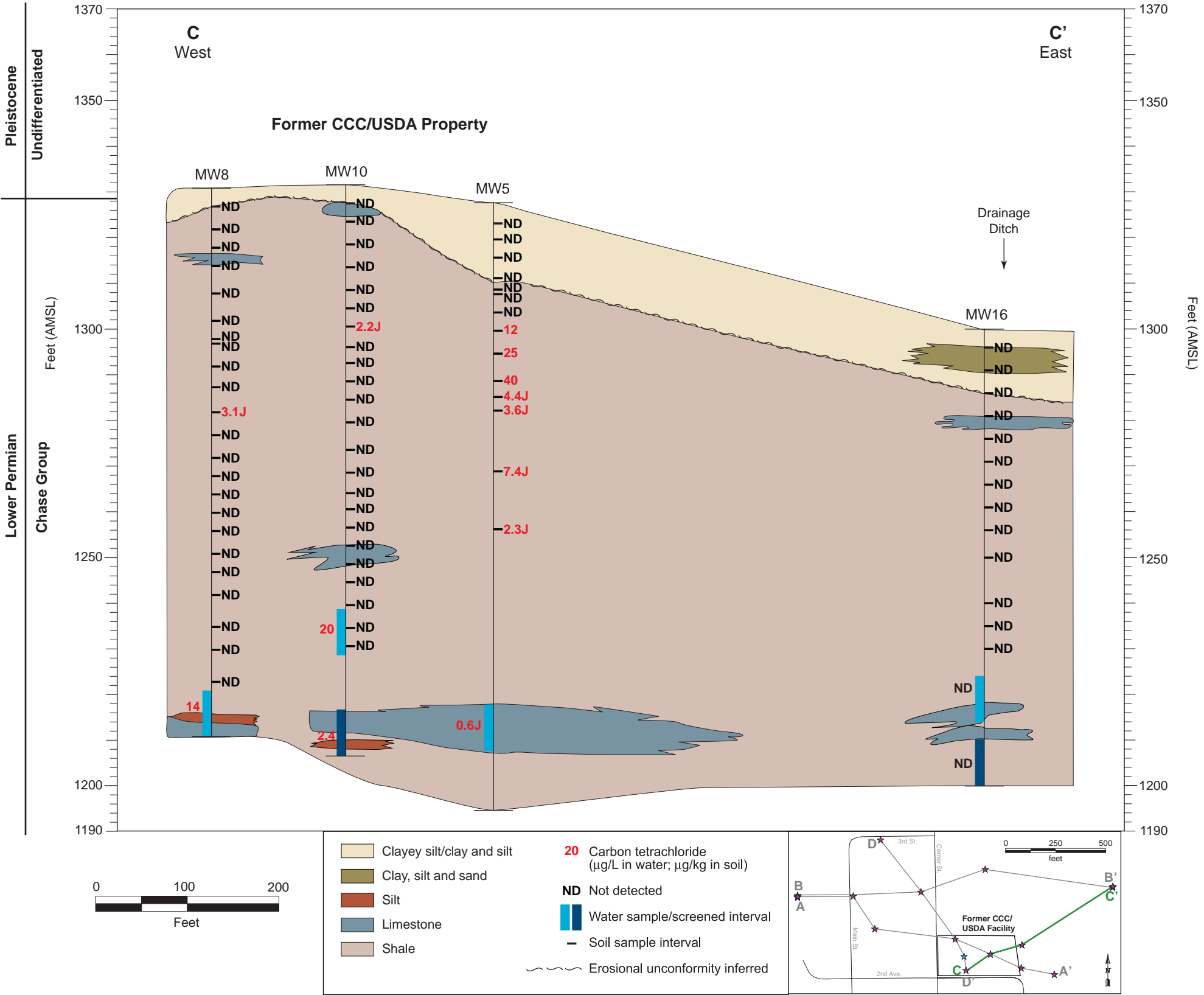


FIGURE 4.4 West-east interpretive hydrogeologic cross section C-C' across the former CCC/USDA property at Barnes (vertically exaggerated), illustrating the lateral and vertical distribution of carbon tetrachloride in soil and groundwater.

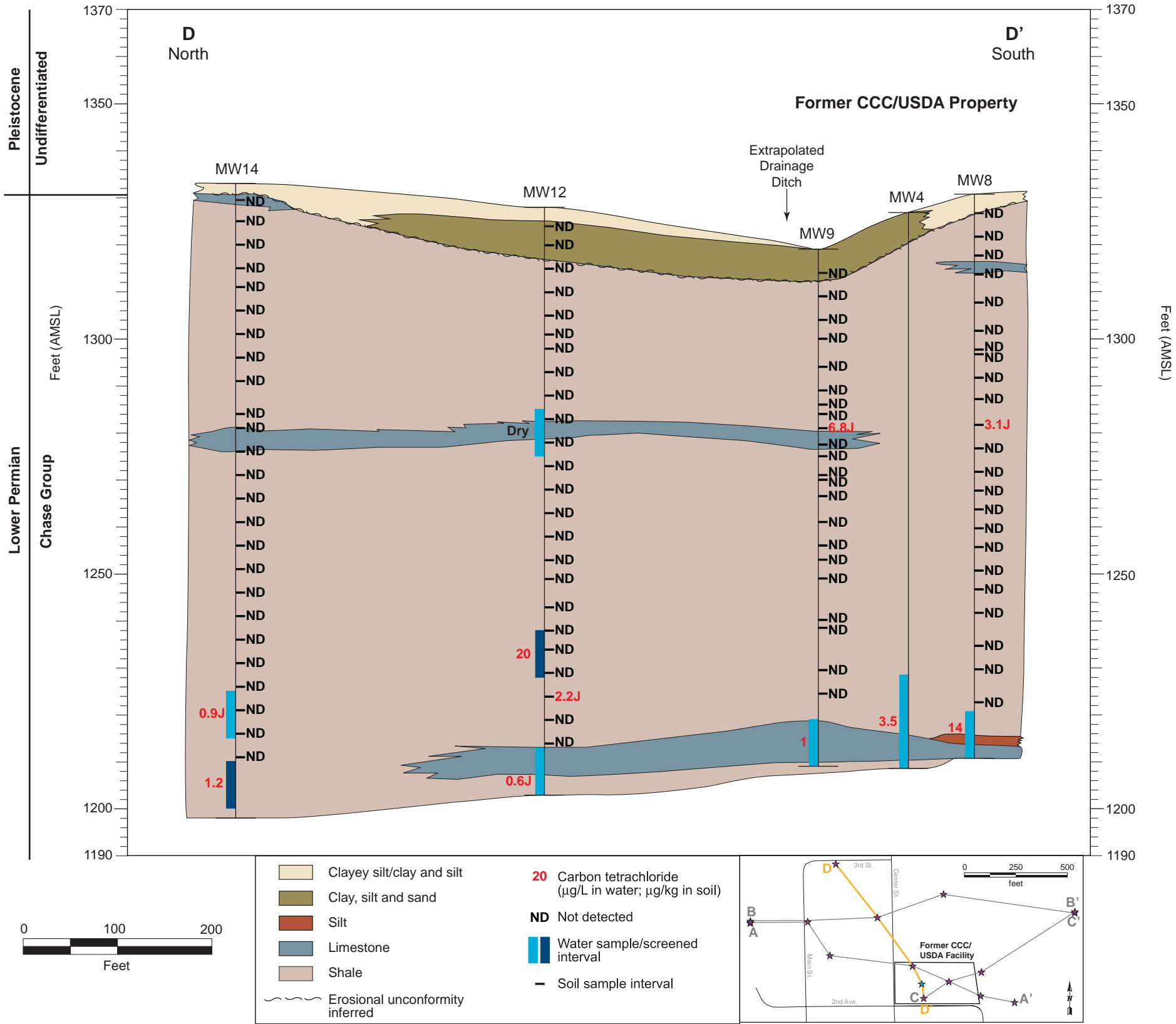


FIGURE 4.5 North-south interpretive hydrogeologic cross section D-D' across the former CCC/USDA property at Barnes (vertically exaggerated), illustrating the lateral and vertical distribution of carbon tetrachloride in soil and groundwater.

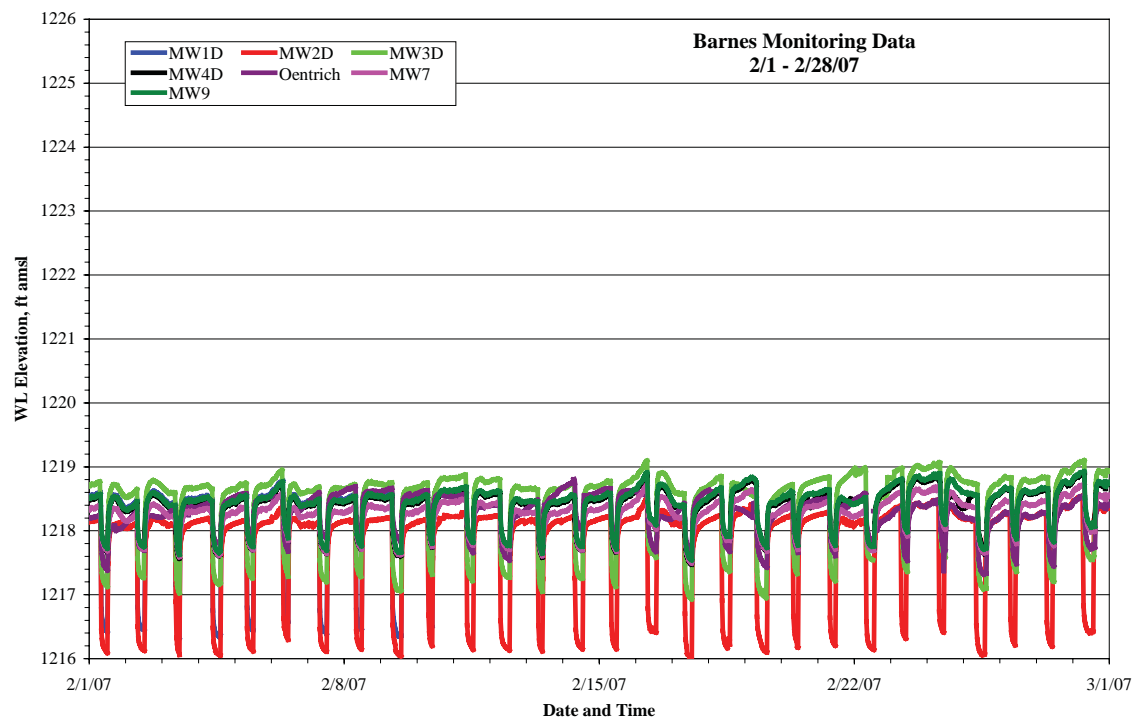
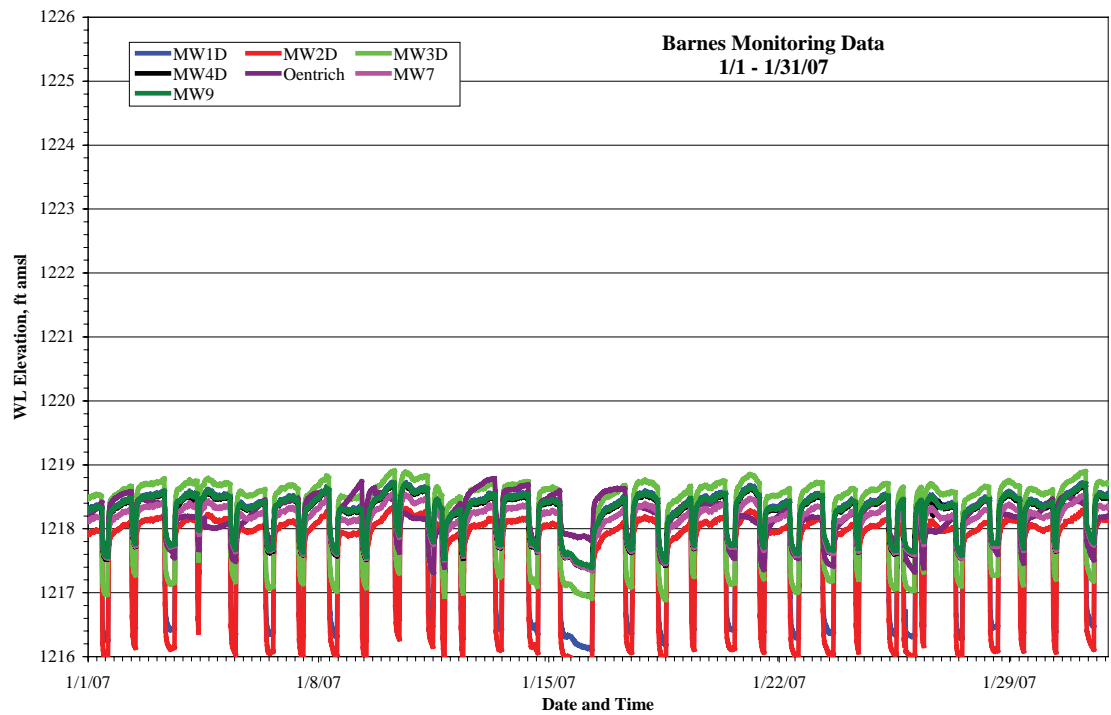


FIGURE 4.6 Hydrographs for wells at Barnes equipped with data loggers for water level monitoring, January 2007-April 2007.

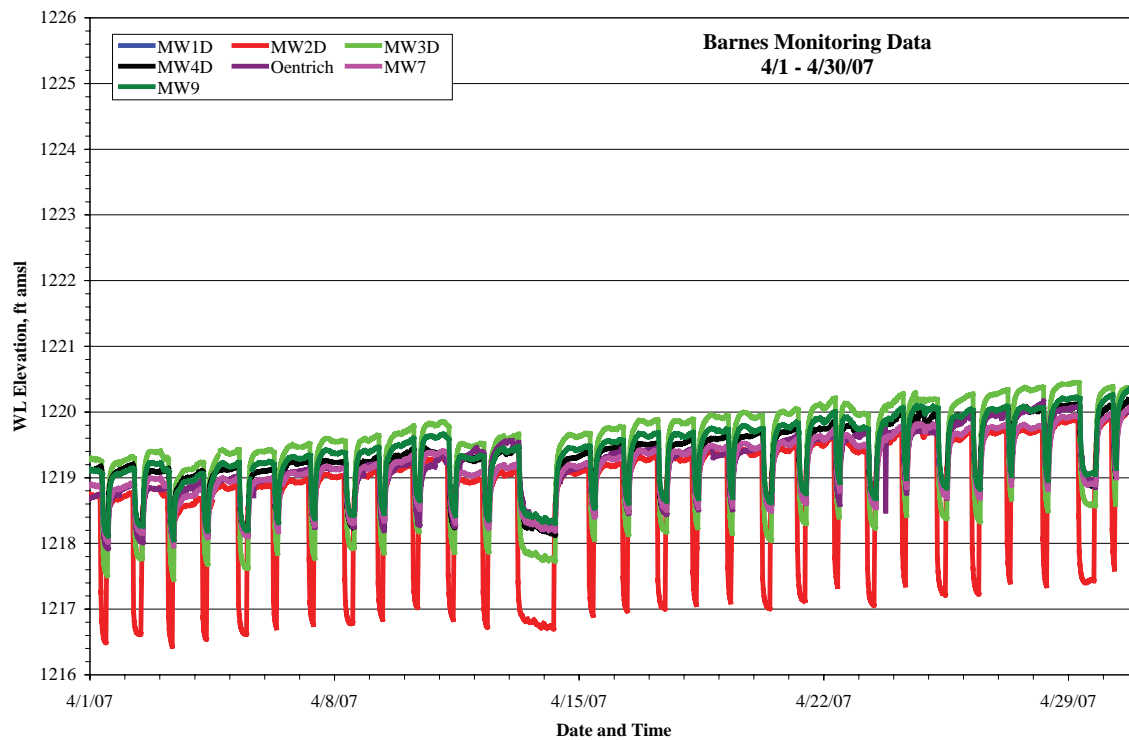
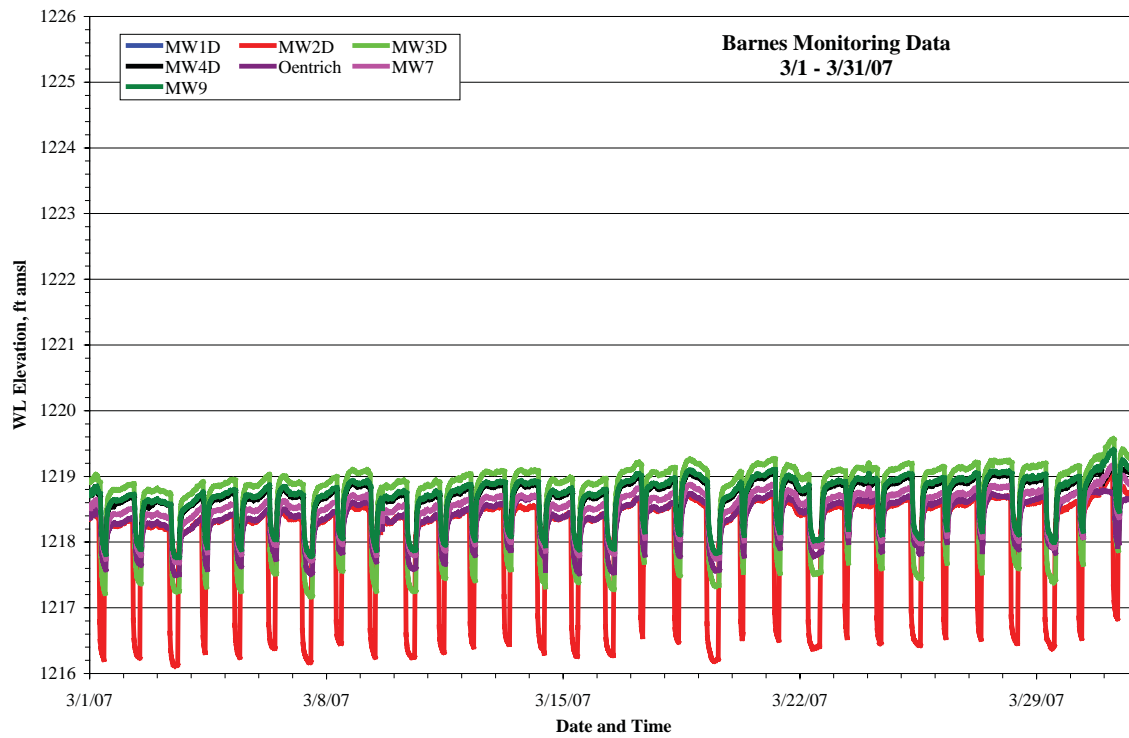


FIGURE 4.6 (Cont.)

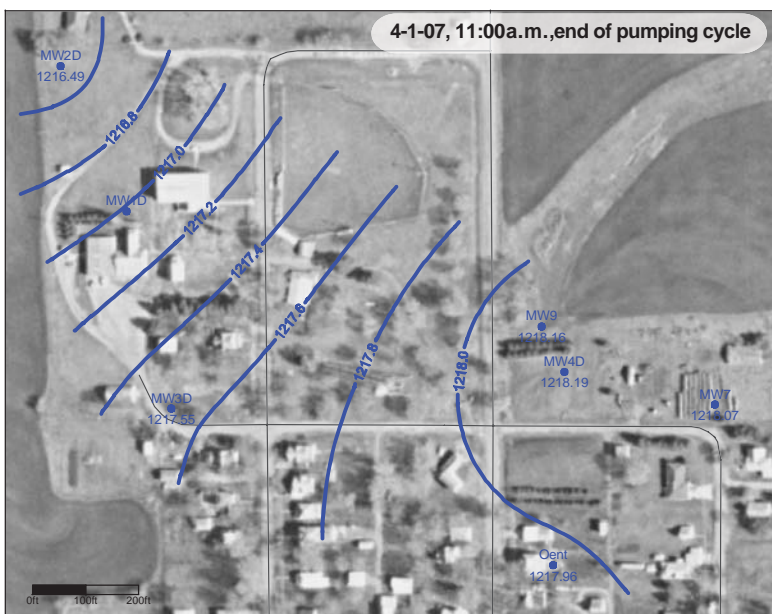
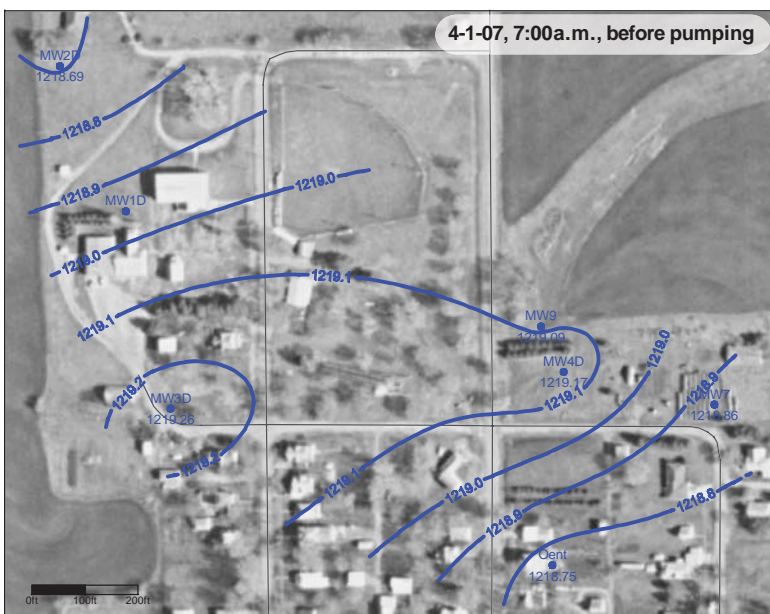
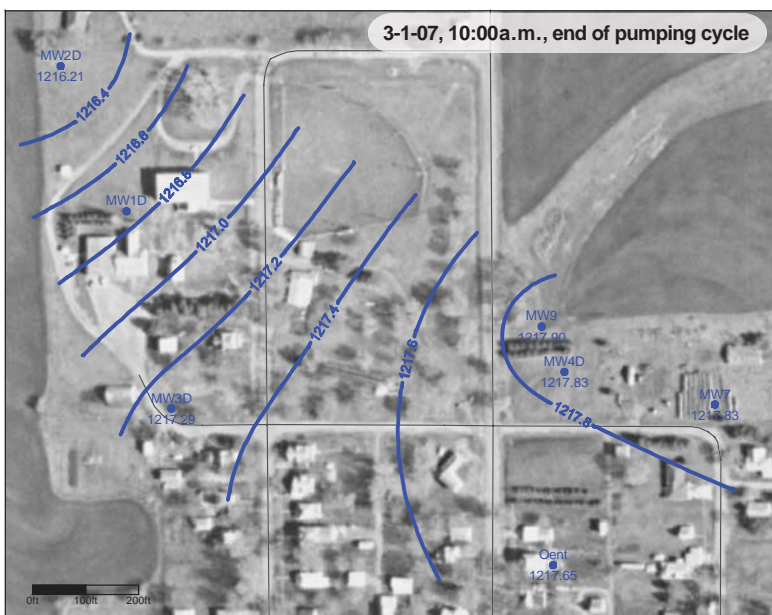
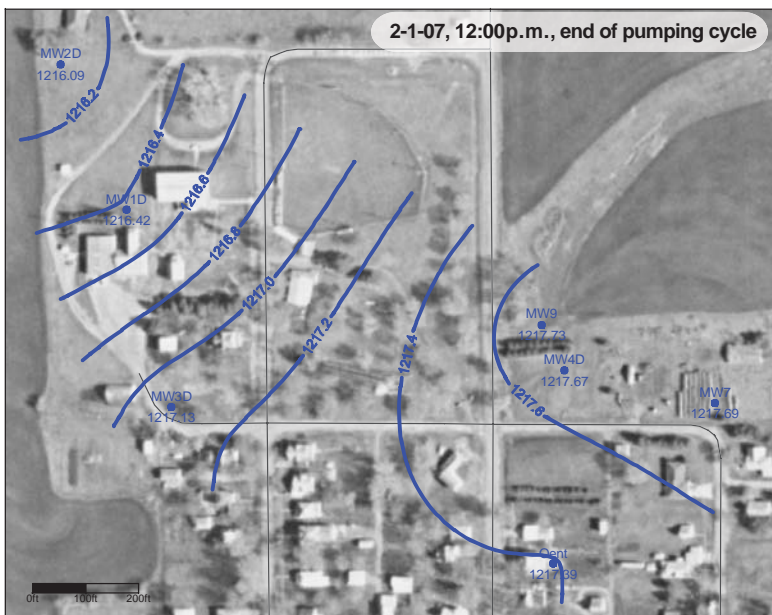
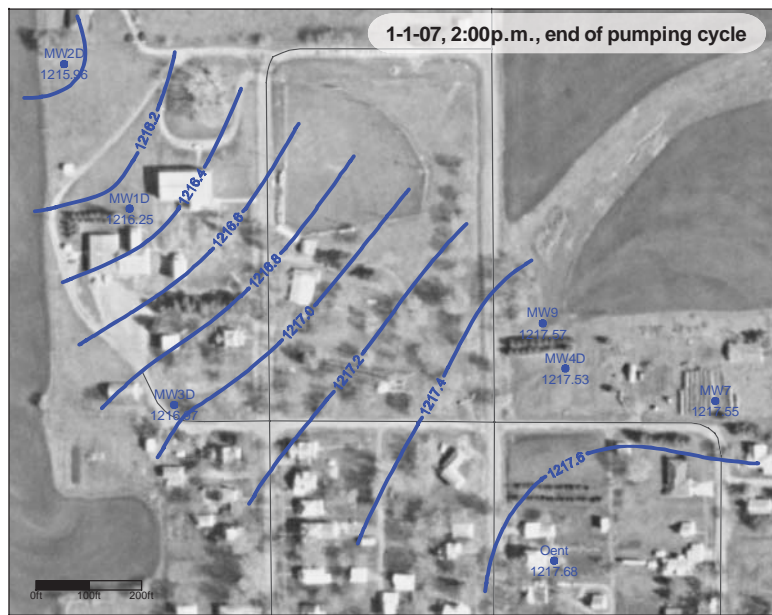
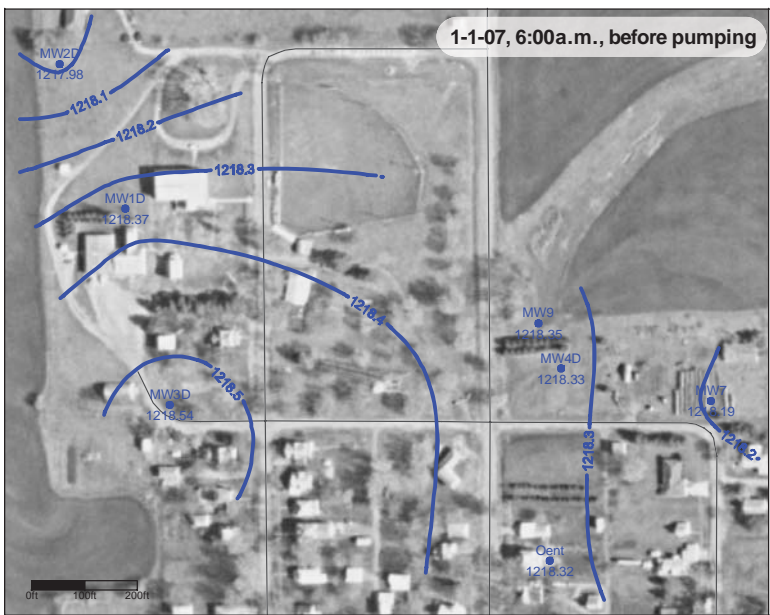


FIGURE 4.7 Potentiometric surface maps for Barnes in January 2007-April 2007 (dates and times indicated), before pumping of the public water supply wells began (left) and at the end of the pumping cycle (right); maps were generated from automatically collected water level data. The public water supply wells are near monitoring well MW1D. Well MW4D is on the former CCC/USDA property. Source of photograph: NAPP (2002).

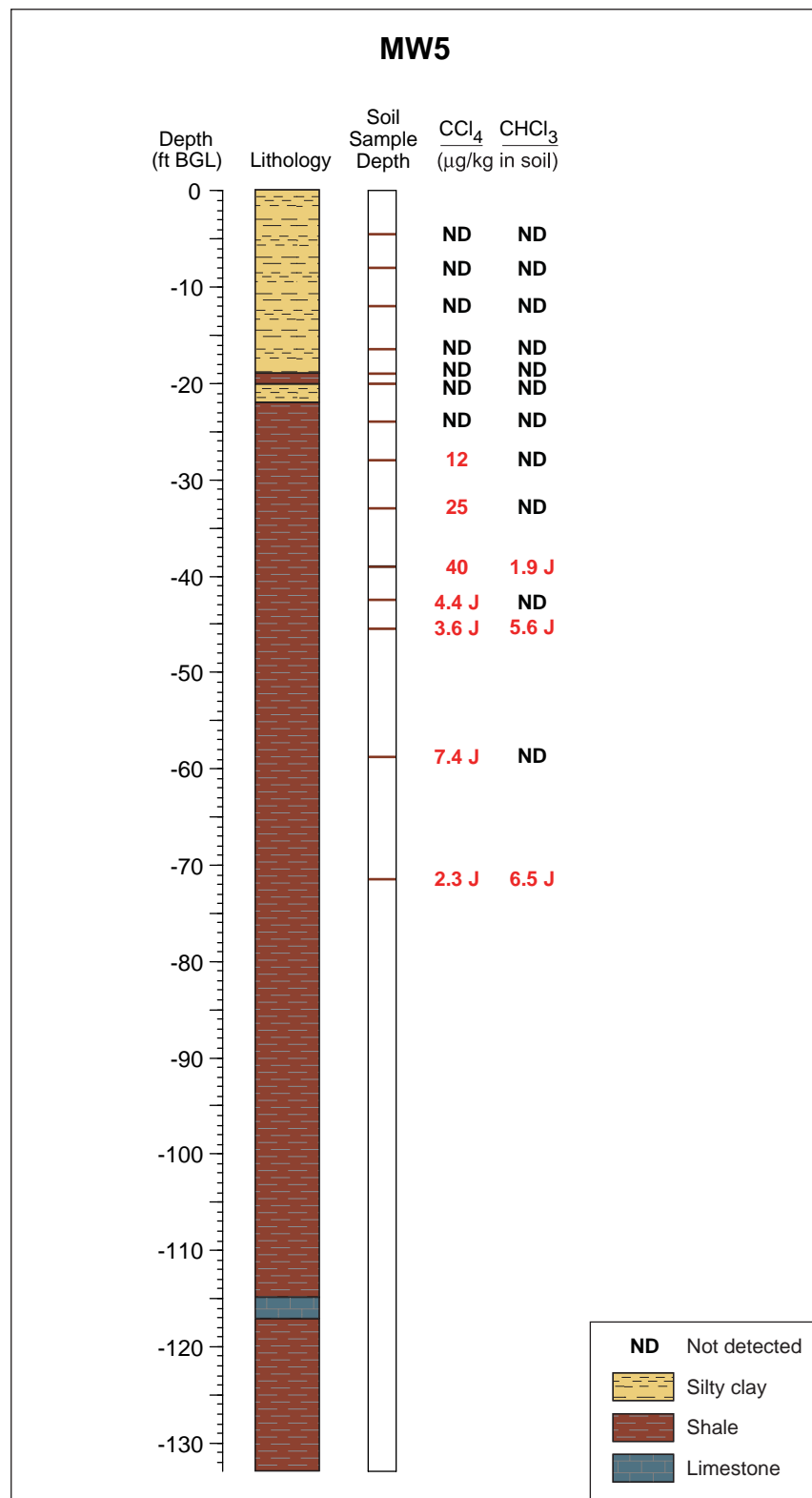


FIGURE 4.8 Distribution of carbon tetrachloride and chloroform with depth in soil samples collected at the MW5 location.

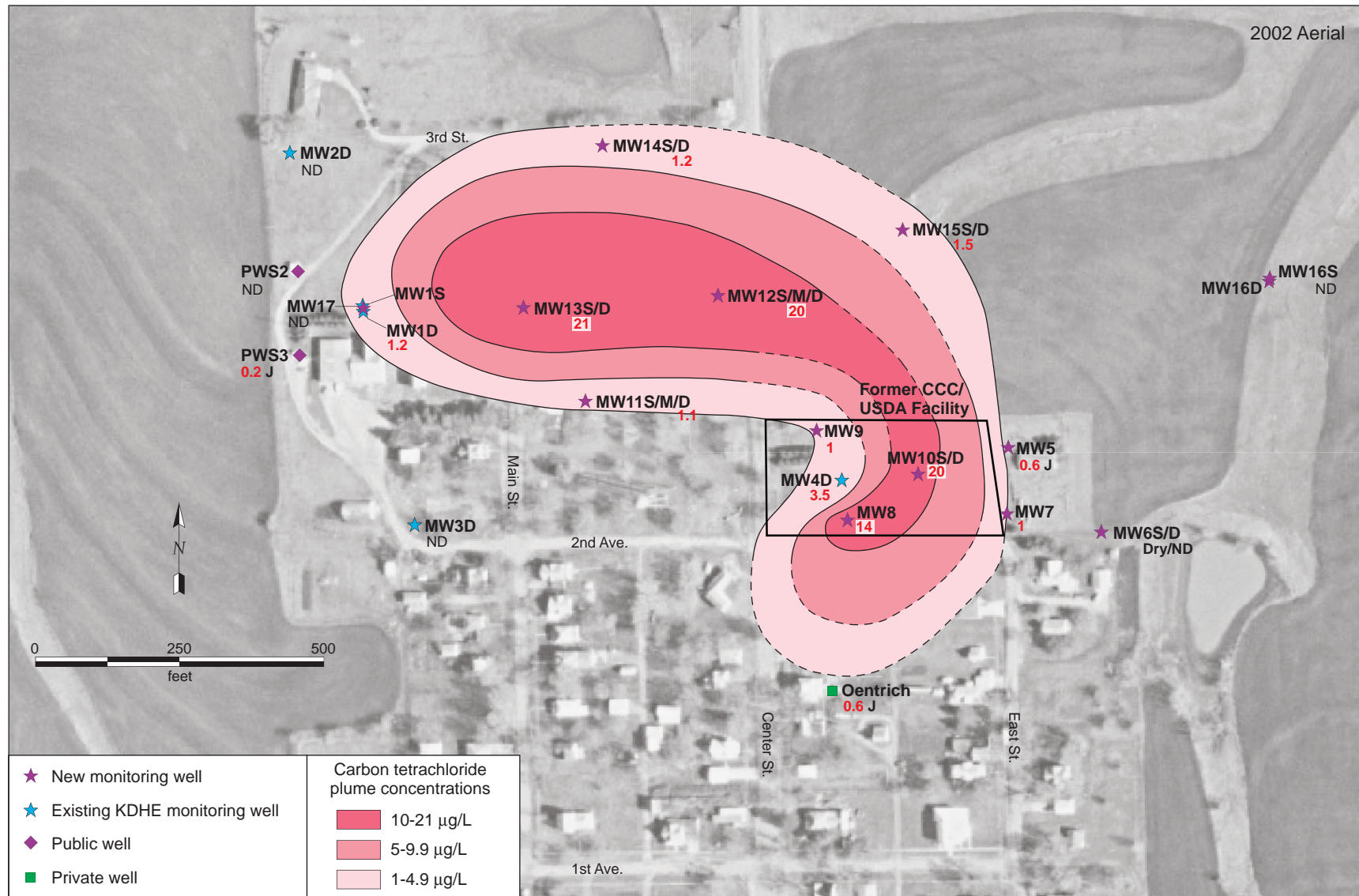


FIGURE 4.9 Interpreted lateral distribution of carbon tetrachloride in the aquifer at Barnes during the 2006-2007 investigation. The most significantly impacted area follows a line through wells MW8, MW10S, MW12M, and MW13S.

5 Conclusions and Recommendations

5.1 Conclusions

The conclusions related to the analytical data collected and near on the former CCC/USDA property during the 2006-2007 investigation at Barnes are as follows.

- *No soil contamination at concentrations above the RBSL of 200 µg/kg the soil-to-groundwater protection pathway was detected at any location sampled during the investigation. Only one borehole (MW5, outside the former CCC/USDA property) showed concentrations of carbon tetrachloride above the method quantitation limit of 10 µg/kg. The highest concentration at location MW5 was 40 µg/kg (at 39 ft BGL). Two other soil samples from location MW5 contained carbon tetrachloride at concentrations above the quantitation limit (25 µg/kg at 33 ft BGL and 12 µg/kg at 28 ft BGL). Trace levels of carbon tetrachloride (below the quantitation limit) were detected in 4 additional soil samples from location MW5, to a depth of 71.5 ft BGL.*
- *No soil contamination at concentrations above the method quantitation limit of 10 µg/kg was detected on the former CCC/USDA property. On this property, carbon tetrachloride was detected in soil at trace concentrations (< 10 µg/kg) at locations MW8, MW9, and MW10. These low concentrations on the former CCC/USDA property would not result in higher concentrations in groundwater, and therefore the soil on that property is not considered to be an ongoing significant source for carbon tetrachloride contamination.*
- *The levels of carbon tetrachloride contamination detected in groundwater are relatively low and limited in extent. The highest carbon tetrachloride concentration detected in groundwater was 21 µg/L at 112-122 ft BGL, in well MW13S. Concentrations in groundwater above the MCL and RBSL values of 5.0 µg/L were also found in samples from MW8 (14 µg/L at 110-120 ft BGL), MW10S (20 µg/L at 93-103 ft BGL), and MW12M (20 µg/L at 90-100 ft BGL).*

- *The boundaries of the carbon tetrachloride plume in groundwater were defined.* Carbon tetrachloride concentrations below the MCL and RBSL values of 5.0 µg/L (or below the detection limit of 0.1 µg/L) resulted from analyses of groundwater samples collected from monitoring wells MW1D, MW2D, MW3D, MW4D, MW5, MW6D, MW7, MW9, MW10D, MW11S, MW11M, MW11D, MW12D, MW13D, MW14S, MW14D, MW15S, MW15D, MW16S, MW16D, and MW17; the Oentrich and Sedivy private wells; and public water supply wells PWS2 and PWS3. Carbon tetrachloride and chloroform levels detected in groundwater samples from all of these locations were below the MCL and the RBSL values of 5.0 µg/L and 80 µg/L, respectively. These data indicate that the full extent of contamination has been delineated.
- *The distribution of carbon tetrachloride and chloroform observed in both soil and groundwater suggests that natural degradation has occurred.*
 - The highest level of carbon tetrachloride contamination in soil was found at location MW5, which lies between the former CCC/USDA facility and a surface drainage ditch extending toward the northeast. Carbon tetrachloride was distributed throughout the MW5 soil profile at 28-71.7 ft BGL, from a maximum concentration of 40 µg/kg at 39 ft BGL to an estimated concentration (below the method quantitation limit) of 2.3 µg/kg at 71.5 ft BGL. Chloroform concentrations showed an increasing trend in the MW5 profile with depth, while the carbon tetrachloride concentrations decreased with depth.
 - In contrast, low-level residual carbon tetrachloride contamination was found in 3 soil profiles on the former CCC/USDA property, as well as in the MW7 profile east of the CCC/USDA property and south of the MW5 location, as indicated by the detection of only trace levels of carbon tetrachloride in 1 or 2 samples collected within each of these profiles. The cross sections discussed in Section 4.1 illustrate these relationships.

- The highest levels of carbon tetrachloride in groundwater extended toward the northwest from the MW5 location and the former CCC/USDA facility. This pattern reflects the influence of pumping of the public wells.
- The higher chloroform concentrations in groundwater also tended to be found in the monitoring wells toward the northwest.
- *The contamination detected in groundwater has not adversely impacted the public water supply wells.* Sentinel wells (MW6S, MW6D, MW11S, MW11M, MW11D, MW14S, MW14D, MW15S, MW15D, MW16S, MW16D, MW17) were installed to monitor the potential migration of the contaminant plume toward the public water supply wells.
- *Groundwater level data indicate that flow is influenced by pumping of the public water supply wells.* Groundwater level data were collected continuously in selected wells over a period of several months. Hydrographs and groundwater flow maps indicate that the pumping of the public water supply wells influences water levels and the groundwater flow direction.
- *The primary water bearing unit identified during investigation activities is the thin layers of fractured limestone encountered in most boreholes.* Fractured limestone was encountered in all boreholes; however, at 2 locations (MW14 and MW15), limestone was not encountered at depths greater than 58.5 ft BGL. The monitoring wells were generally screened across the limestone layers (except in wells MW14S, MW14D, MW15S, and MW15D). Water level data collected during pumping of the public wells indicate that the public water supply system obtains water from the fractured limestone.
- *Barnes residents have access to an uncontaminated public water supply.* Residents obtain their water from 2 public water supply wells located northwest of the former CCC/USDA property. The carbon tetrachloride plume is well defined downgradient, between the former CCC/USDA property and the public water supply wells. Existing monitoring well MW1D and monitoring point MW17, installed as sentinel wells between the plume and the public water supply wells, will provide data sufficient to monitor contaminant

migration. A future detection of carbon tetrachloride in these wells should serve as a warning in time to permit implementation of appropriate measures, in consultation with the CCC/USDA and KDHE project managers.

5.2 Recommendations

The following recommendations are based on the interpretation of analytical data collected during this investigation, observations made during field activities, and information obtained from historical investigations.

- *Soil contamination detected on the former CCC/USDA property.* Carbon tetrachloride concentrations detected in soils collected in the vadose zone on the former CCC/USDA property (maximum estimated at 6.8 µg/kg, below the method quantitation limit of 10 µg/kg) are far below the RBSL of 200 µg/kg for the soil-to-groundwater protection pathway. Therefore, no remediation of the soils on this property is required or recommended.
- *Groundwater monitoring.* The carbon tetrachloride contamination (the above MCL and RBSL values of 5.0 of µg/L) in groundwater stretches from the central portion of the former CCC/USDA property and northwestward toward the public water supply wells. Groundwater at the site should be monitored quarterly for one year and then twice yearly for a second year. The initially increased frequency is warranted to monitor contaminant levels and migration near the public water supply wells. The results will help to determine what additional action, if any, is necessary at the Barnes site.
- *Investigation of other potentially responsible parties.* Information from historical investigations indicates that carbon tetrachloride and chloroform were mixed and stored at the high school agricultural vocational building. Some of the mixture was reportedly dumped outside. The remaining chemicals were disposed of through KDHE as hazardous waste. The proximity of the school to the area in which carbon tetrachloride was detected during this investigation, as well as to the public water supply wells, warrants further investigation of the school as a potentially responsible party (PRP).

The CCC/USDA requests that the KDHE send a PRP Information Request form to the school district and that the KDHE determine whether any other PRPs exist.

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Appendix A:
Property Documentation

Appendix A:

Property Documentation

Property ownership and lease records are summarized in Table A.1 (for the former CCC/USDA property at Barnes) and Table A.2 (for the former CCC/USDA property and surrounding properties). The current depiction of the boundaries of the former CCC/USDA property at Barnes is based on these records. The historical changes in the property boundaries are shown in Figure A.1.

The dimensions of the former CCC/USDA property are well defined in the initial lease between Ernest Clark and the Washington County Agricultural Conservation Association (later the Commodity Stabilization Service of the CCC/USDA), dated 8/30/1949 (Table A.1), and in four subsequent lease extensions. In 1949-1959, the dimensions of the property are described as 190 ft × 358 ft × 190 ft × 380 ft. In the second lease extension, dated 4/29/1959, the dimensions of the leased property are reduced slightly to 190 ft × 358 ft × 190 ft × 358 ft. Aerial photos dated 1957 (Figure A.2) and 1962 (Figure A.3) show 16 wooden granaries and 12 aluminum bins on the property, respectively. In the fourth (final) lease extension, dated 5/26/1969, the property was reduced by more than half, to 180 ft × 152 ft × 180 ft × 152 ft. A 1969 aerial photograph (Figure A.4) shows 12 aluminum bins remaining on the property; however, the 16 wooden granaries had been removed, although their foundations were still visible.

The final lease extension, dated 5/26/1969, was to end on 10/1/1974. Although no lease termination agreement is on file with the county, the CCC/USDA is known to have ceased operations prior to 9/26/1974, when the former CCC/USDA property (and most of the southeast quarter of the section) was leased by Clark to the Barnett Oil Company for oil and gas exploration.

Grain storage structures remained on the property after the CCC/USDA ceased operations. On 11/9/1977, Charles Hagedorn purchased the former CCC/USDA property (and part of the southeast quarter of the section) from Clark. Hagedorn stated that two grain bins remained on the property when he purchased it (Hagedorn 2008). On 12/14/1983, Charles Jenkins purchased the western portion of the former CCC/USDA property. An undated aerial photograph (Figure A.5) shows a house trailer on this parcel, with two grain bins remaining on the Hagedorn property to the east. Jana Jenkins sold the parcel back to Hagedorn on 10/4/2002.

No grain storage bins currently remain on the property. Hagedorn (2008) reported that he had sold the bins that were on the property at the time of his purchase, for scrap metal. He also stated (1) that no grain was stored on the property in the interim between termination of the CCC/USDA operations in 1974 and his purchase in 1977 and (2) that he believed that “the government” was the only entity that had stored grain on the property.

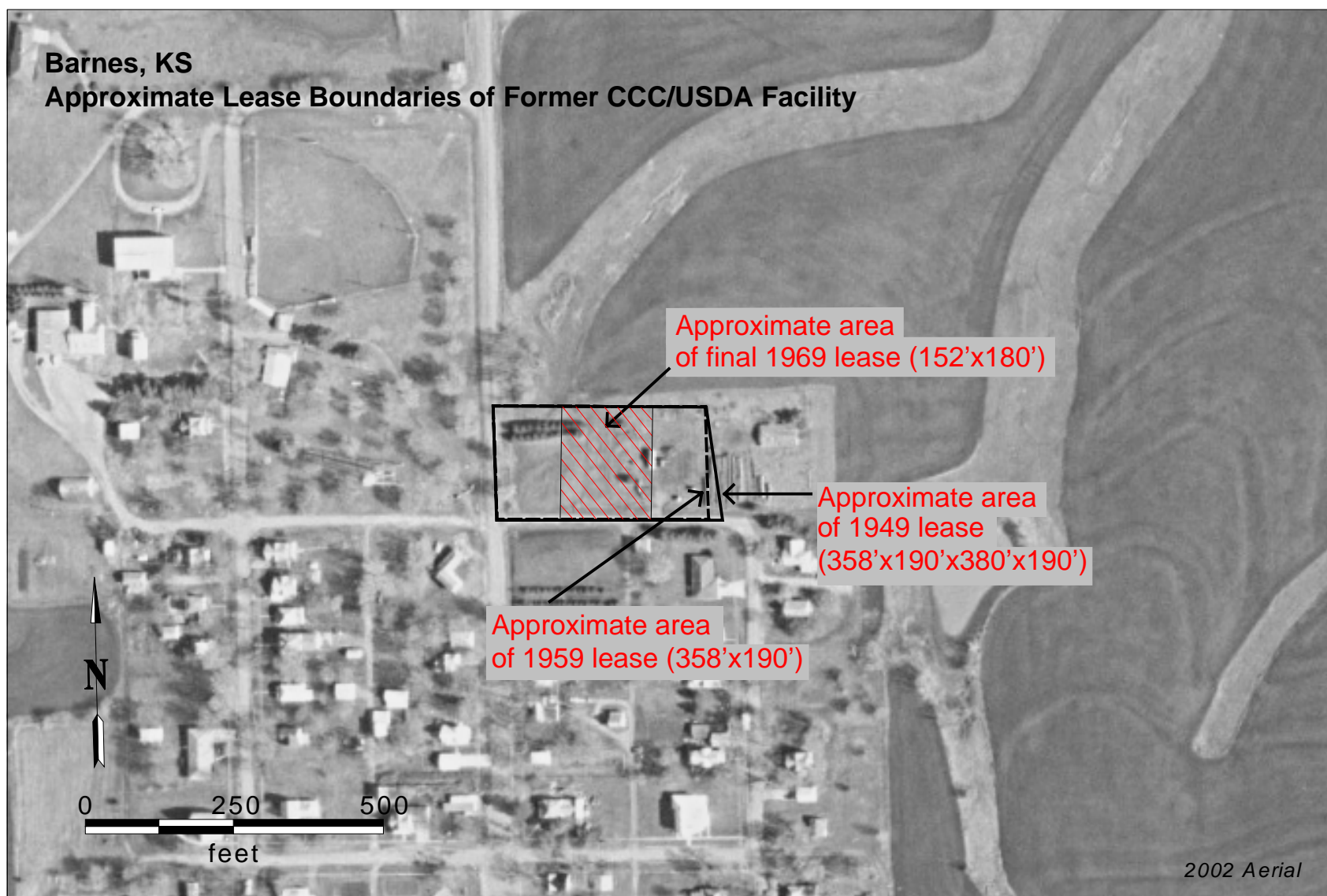


FIGURE A.1 Historical boundaries for the former CCC/USDA grain storage facility at Barnes, Kansas, based on lease documentation. Source of photograph: NAPP (2002).



FIGURE A.2 1957 aerial photograph of Barnes, Kansas. Source of photograph: USDA (1957).



FIGURE A.3 1962 aerial photograph of Barnes, Kansas. Source of photograph: USDA (1962).



FIGURE A.4 1969 aerial photograph of Barnes, Kansas. Source of photograph: USDA (1969).

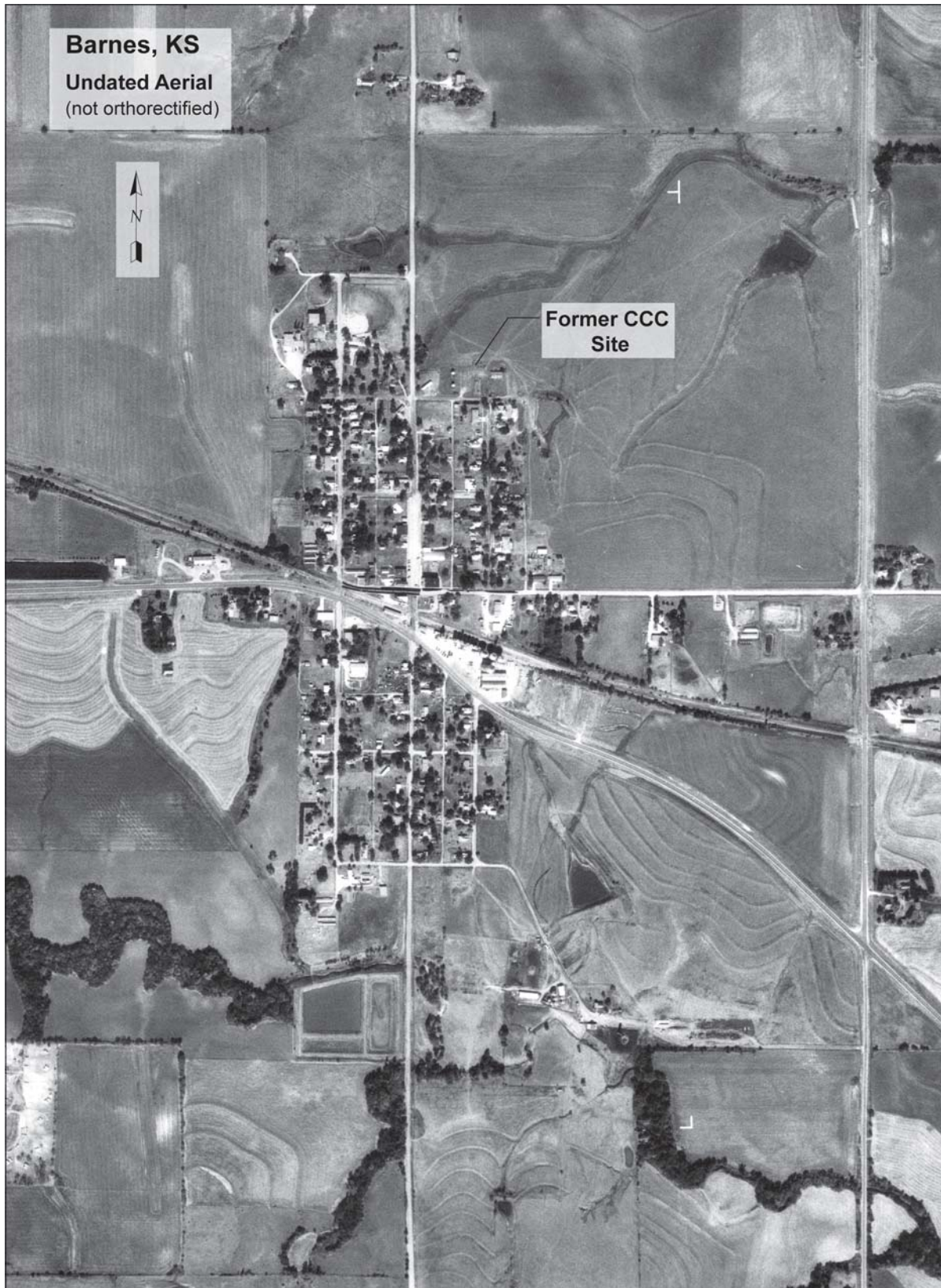


FIGURE A.5 Undated aerial photograph of Barnes, Kansas, believed to have been taken in 1983 or later, on the basis of the lease dated December 14, 1983. Source of photograph: USDA (undated).

TABLE A.1 Property ownership and lease records for the former CCC/USDA property at Barnes, Kansas.^a

Date Signed	Date Recorded	Grantor	Grantee	Book	Page	Item	Comment
10/18/1923	12/6/1923	Baxter, J.W.	Sinclair Pipeline Co.	94	637	Right-of-way contract	Includes former CCC/USDA property.
3/1/1947	3/3/1947	Fagan, Leonard	Oberhelman, Milton	124	158	Deed record	Includes former CCC/USDA property (includes most of SE quarter).
3/15/1947	3/20/1947	Oberhelman, Milton	Clark, Ernest	122	98	Deed record	Includes former CCC/USDA property (includes most of SE quarter).
8/30/1949	2/23/1950	Clark, Ernest	Washington Cty. Agr. Conservation	128	162	Lease agreement	Lease period 9/1/49 to 10/1/54, to permit placement of CCC/USDA granaries for grain storage. Property dimensions: 190 ft by 358 ft by 190 ft by 380 ft.
9/24/1954	12/10/1954	Clark, Ernest	Commodity Credit Corp.	132	82	Lease extension	Lease period 10/1/54 to 10/1/59. Property dimensions: 190 ft by 358 ft by 190 ft by 380 ft.
8/3/1955	8/11/1955	Service Pipeline	Burden Construction	77	367	Right-of-way contract	Probably includes former CCC/USDA property.
4/29/1959	5/11/1959	Clark, Ernest	Commodity Credit Corp.	132	442	Lease extension	Lease period 10/1/59 to 10/1/64. Property dimensions reduced to 190 ft by 358 ft by 190 ft by 358 ft.
5/29/1963	6/11/1963	Clark, Ernest	Commodity Credit Corp.	136	280	Lease extension	Lease period 10/1/64 to 10/1/69. Property dimensions 190 ft by 358 ft by 190 ft by 358 ft.
5/26/1969	6/6/1969	Clark, Ernest	Commodity Credit Corp.	136	509	Lease extension	Lease period 10/1/69 to 10/1/74. Property dimensions reduced to 180 ft by 152 ft by 180 ft by 152 ft.
9/26/1974	11/8/1974	Clark, Ernest	Barnett Oil Co.	J	268	Oil and gas lease	Includes former CCC/USDA property (includes most of SE quarter). Indicates termination of the CCC/USDA lease dated 5/26/69 prior to this lease signatory date of 9/26/74. Termination date for CCC/USDA lease is unknown.
4/30/1975	5/5/1975	Barnett Oil Co.	Barnett Oil Co., a partnership	152	97	Assignment of oil and gas lease	Probably includes former CCC/USDA property.
10/13/1976	10/18/1976	Barnett Oil Co.	Various	154	327	Release of oil and gas leases	Probably includes former CCC/USDA property.
11/9/1977	7/19/1988	Clark, Ernest	Hagedorn, Charles	190	488	Warranty deed	Includes former CCC/USDA property.
12/14/1983	12/15/1983	Hagedorn, Charles	Jenkins, Charles	173	57	Quit claim deed	W portion of former CCC/USDA property.
3/7/1993	10/6/1998	Jenkins, Charles	Jenkins, Jana	215	79	Quit claim deed	W portion of former CCC/USDA property.
7/29/1998	8/7/1998	Hagedorn, Charles	Truhlicka, Willis	214	266	Warranty deed	Property N and E of former CCC/USDA property.
10/4/2002	10/9/2002	Jenkins, Jana	Hagedorn, Charles	224	364	Quit claim deed	W portion of former CCC/USDA property.

^a Location: SE quarter, Section 9, Township 4 South, Range 5 East, Washington County, Kansas.

Source: Washington County, Kansas, Register of Deeds.

TABLE A.2 Property ownership and lease records for the former CCC/USDA property and surrounding properties at Barnes, Kansas.

Date Signed	Date Recorded	S	T	R	Qtr	Part of Qtr	Grantor	Grantee	Book	Page	Item	Comment		
10/18/1923	12/6/1923	9	4	S	5	E	SE	Baxter, J.W.	Sinclair Pipeline Co.	94	637	Right-of-way contract	Includes former CCC/USDA property.	
11/26/1923	1/11/1924	9	4	S	5	E	SW	NE	Bookwalter	97	7	Right-of-way contract	W of former CCC/USDA property.	
6/30/1927	8/17/1927	9	4	S	5	E	SE	Ireland, Rolland	Federal Trust Co.	100	341	Assignment of leases	Includes SE quarter of 9-4-5.	
6/28/1932	6/28/1932	9	4	S	5	E	SE	Rosenkranz	Federal Trust Co.	104	600		Record not found.	
7/30/1932	8/27/1932	9	4	S	5	E	SE	Federal Trust Co.	Kansas City Life Ins.	104	623	Quit claim deed	Over 2,500 ft E of former CCC/USDA property.	
2/1/1936	2/1/1936	9	4	S	5	E	SW	All	Kansas Power and Light	District Court of Washington County	109	277	Condemnation	W of former CCC/USDA property (for oil line rights-of-way).
11/21/1942	12/16/1942	9	4	S	5	E	SW	All	Bookwalter	Wolverton, Lloyd	115	243	Warranty deed	Probably includes park W of former CCC/USDA property.
7/31/1943	8/6/1943	9	4	S	5	E	SE	Kansas City Life Ins.	Fagan, Leonard	115	413	Corporation deed	Probably land S of former CCC/USDA property.	
10/21/1943	10/21/1943	9	4	S	5	E	SW	NE	Wolverton, Lloyd	Skovgaard	117	443		Record not found: Probably SW of former CCC/USDA property.
11/3/1943	11/4/1943	9	4	S	5	E	SW	All	Wolverton	Ballard	117	465	Deed record	SW of former CCC/USDA property.
2/27/1946	3/1/1946	9	4	S	5	E	SW	All	Wolverton	Truhlicka, Willis	122	29	Deed record	All of SW quarter of 9-5-4, except for City of Barnes and Skovgaard property recorded on 10/21/43.
11/20/1946	11/26/1946	9	4	S	5	E	SE	Larson	Truhlicka	122	75	Deed record	SSW of former CCC/USDA property.	
3/1/1947	3/3/1947	9	4	S	5	E	SE	Fagan, Leonard	Oberhelman, Milton	124	158	Deed record	Includes former CCC/USDA property (includes most of SE quarter).	
3/15/1947	3/20/1947	9	4	S	5	E	SE	Oberhelman, Milton	Clark, Ernest	122	98	Deed record	Includes former CCC/USDA property (includes most of SE quarter).	
12/21/1948	1/3/1949	9	4	S	5	E	SW	NE	Skovgaard, Hans	Holt, Harold	126	294	Deed record	SW of former CCC/USDA property.
8/30/1949	2/23/1950	9	4	S	5	E	SE	Clark, Ernest	Washington Cty. Agr. Conservation	128	162	Lease agreement	Lease period 9/1/49 to 10/1/54, to permit placement of CCC/USDA granaries for grain storage. Property dimensions: 190 ft by 358 ft by 190 ft by 380 ft.	
6/16/1954	8/2/1954	9	4	S	5	E	SW	All	Ballard	State of Kansas	133	51	Deed for highway purposes	SW of former CCC/USDA property.
9/24/1954	12/10/1954	9	4	S	5	E	SE	Clark, Ernest	Commodity Credit Corp.	132	82	Lease extension	Lease period 10/1/54 to 10/1/59. Property dimensions: 190 ft by 358 ft by 190 ft by 380 ft.	
8/3/1955	8/11/1955	9	4	S	5	E	SE	Service Pipeline	Burden Construction	77	367	Right-of-way contract	Probably includes former CCC/USDA property.	
5/14/1957	5/17/1957	9	4	S	5	E	SW	NE	Skovgaard	Holt	135	143	Deed record	NW of former CCC/USDA property.
4/29/1959	5/11/1959	9	4	S	5	E	SE	Clark, Ernest	Commodity Credit Corp.	132	442	Lease extension	Lease period 10/1/59 to 10/1/64. Property dimensions reduced to 190 ft by 358 ft by 190 ft by 358 ft.	
5/20/1963	5/21/1963	9	4	S	5	E	SW	All	Ballard	Farmers Co-op Oil Co.	140	133	Deed record	SW of former CCC/USDA property.
5/29/1963	6/11/1963	9	4	S	5	E	SE	Clark, Ernest	Commodity Credit Corp.	136	280	Lease extension	Lease period 10/1/64 to 10/1/69. Property dimensions 190 ft by 358 ft by 190 ft by 358 ft.	
11/21/1966	11/21/1966	9	4	S	5	E	SW	NE	Burden Construction	Various	I	586		Record not found. Probably SW of former CCC/USDA property.
5/26/1969	6/6/1969	9	4	S	5	E	SE	Clark, Ernest	Commodity Credit Corp.	136	509	Lease extension	Lease period 10/1/69 to 10/1/74. Property dimensions reduced to 180 ft by 152 ft by 180 ft by 152 ft.	
1/23/1970	1/27/1970	9	4	S	5	E	SW	Lot 2	Holt	Holt	140	603	Deed record	NW of former CCC/USDA property.
2/2/1970	2/4/1970	9	4	S	5	E	SW	Lot 2	Holt	Holt	148	178	Deed record	NW of former CCC/USDA property.
12/13/1973	Unknown	9	4	S	5	E	SW	SE	Ballard	Hagedorn, Charles	158	12	Warranty deed	SW of former CCC/USDA property.
9/26/1974	11/8/1974	9	4	S	5	E	SE	Clark, Ernest	Barnett Oil Co.	J	268	Oil and gas lease	Includes former CCC/USDA property (includes most of SE quarter). Indicates termination of CCC/USDA lease dated 5/26/69 prior to this lease signatory date of 9/26/74. Termination date for CCC/USDA lease is unknown.	
9/26/1974	11/8/1974	9	4	S	5	E	SW	Lot 2	Holt	Barnett Oil Co.	J	271	Oil and gas lease	NW of former CCC/USDA property.
9/27/1974	11/8/1974	9	4	S	5	E	SW	All	Truhlicka	Barnett Oil Co.	J	281	Oil and gas lease	Probably SSW of former CCC/USDA property.
4/30/1975	5/5/1975	9	4	S	5	E	SE	Barnett Oil Co.	Barnett Oil Co., a partnership	152	97	Assignment of oil and gas lease	Probably includes former CCC/USDA property.	
5/5/1975	5/5/1975	9	4	S	5	E	SW	Lot 2	Barnett Oil Co.	Barnett Oil Co.	152	97		Record not found. Probably SW of former CCC/USDA property.
5/5/1975	5/5/1975	9	4	S	5	E	SW	All	Barnett Oil Co.	Barnett Oil Co.	152	97		Record not found. Probably SW of former CCC/USDA property.
7/6/1976	7/13/1976	9	4	S	5	E	SW	All	Truhlicka	Truhlicka	149	488	Deed record	SW of former CCC/USDA property.
10/13/1976	10/18/1976	9	4	S	5	E	SE	Barnett Oil Co.	Various	154	327	Release of oil and gas leases	Probably includes former CCC/USDA property.	
10/18/1976	10/18/1976	9	4	S	5	E	SW	All	Barnett Oil Co.	Various	154	327		Record not found. Probably SW of former CCC/USDA property.
4/7/1977	4/11/1977	9	4	S	5	E	SE	Clark, Ernest	Weaver, Lenis	149	592	Deed record	S of former CCC/USDA property.	
7/28/1977	8/26/1977	9	4	S	5	E	SE	Clark, Ernest	Weaver, Lenis	155	446	Warranty deed	S of former CCC/USDA property.	
11/9/1977	7/19/1988	9	4	S	5	E	SE	Clark, Ernest	Hagedorn, Charles	190	488	Warranty deed	Includes former CCC/USDA property.	
11/9/1977	8/23/1978	9	4	S	5	E	SE	Clark, Ernest	Wiechman, Albert	158	297	Warranty deed	S of former CCC/USDA property.	
8/23/1978	8/23/1978	9	4	S	5	E	SE	Wiechman, Albert, et al.	Wiechman, Albert	158	298	Warranty deed	S of former CCC/USDA property.	
2/8/1979	5/21/1979	9	4	S	5	E	SW	All	Farmers Co-op	City of Barnes	160	353	Easement	SW of former CCC/USDA property.
5/1/1979	5/18/1979	9	4	S	5	E	SW	NE	Truhlicka	Oberhelman	160	351	Warranty deed	NW of former CCC/USDA property.
5/18/1979	6/21/1979	9	4	S	5	E	SW	NE	Oberhelman	Oberhelman	160	417	Warranty deed	NW of former CCC/USDA property.
3/10/1980	3/10/1980	9	4	S	5	E	SE	Weaver, Clyde	State Exchange Bank	147			Record not found. Probably related to 4/7/77 and 7/28/77 records. S of former CCC/USDA property.	
10/22/1980	11/3/1980	9	4	S	5	E	SW	Truhlicka	Truly	164	88	Warranty deed	SW of former CCC/USDA property.	
10/23/1980	11/3/1980	9	4	S	5	E	SW	Truhlicka	Truhlicka and Truly	164	86	Warranty deed	SW of former CCC/USDA property.	

TABLE A.2 (Cont.)

Date Signed	Date Recorded	S	T	R	Qtr	Part of Qtr	Grantor	Grantee	Book	Page	Item	Comment
4/8/1981	7/29/1981	9	4	S	5	E	SW	Truly	165	450	Special warranty deed	SW of former CCC/USDA property.
9/29/1982	8/1/1983	9	4	S	5	E	SW	Hagedorn, Charles	171	166	Quit claim deed	SW of former CCC/USDA property.
9/29/1982	8/1/1983	9	4	S	5	E	SW	Hagedorn, Charles	171	167	Warranty deed	SW of former CCC/USDA property.
5/22/1983	7/21/1983	9	4	S	5	E	SE	Oberhelman, Emma	172	73	Oil and gas lease	Might be just E of former CCC/USDA property.
5/22/1983	7/21/1983	9	4	S	5	E	SE	Oberhelman, Emma	172	73	Oil and gas lease	S of former CCC/USDA property.
9/26/1983	10/31/1983	9	4	S	5	E	SE	Kewa Exploration, Inc.	174	92	Assignment of leases	Might include former CCC/USDA property.
9/26/1983	10/31/1983	9	4	S	5	E	SW	Kewa Exploration, Inc.	174	92	Assignment of leases	Should be SW and W of former CCC/USDA property.
12/14/1983	12/15/1983	9	4	S	5	E	SE	Hagedorn, Charles	173	57	Quit claim deed	Western portion of former CCC/USDA property.
8/2/1984	8/2/1984	9	4	S	5	E	SW	State Exchange Bank	154	63		Record not found. Probably SW of former CCC/USDA property.
8/1/1984	9/11/1984	9	4	S	5	E	SW	Oberhelman	178	263	Easement	Immediately SW of former CCC/USDA property.
9/28/1987	10/5/1987	9	4	S	5	E	SW	Oberhelman	189	152	Warranty deed	W of former CCC/USDA property.
8/1/1988	8/22/1988	9	4	S	5	E	SW	Texaco, Inc.	187	430	Termination of oil and gas leases	Should be SW and W of former CCC/USDA property.
7/5/1990	7/6/1990	9	4	S	5	E	SW	City of Barnes	194	381	Lease	
7/16/1990	7/19/1990	9	4	S	5	E	SW	High Plains Cablevision	194	422	Assignment of leasehold as collateral	
3/7/1993	10/6/1998	9	4	S	5	E	SE	Jenkins, Charles	215	79	Quit claim deed	W portion of former CCC/USDA property.
3/30/1998	4/3/1998	9	4	S	5	E	SW	Truly	213	337	Special warranty deed	SW of former CCC/USDA property.
7/29/1998	8/7/1998	9	4	S	5	E	SE	Hagedorn, Charles	214	266	Warranty deed	Property N and E of former CCC/USDA property.
10/4/2002	10/9/2002	9	4	S	5	E	SE	Jenkins, Jana	224	364	Quit claim deed	W portion of former CCC/USDA property.
9/2/2005	9/2/2005	9	4	S	5	E	SW	Truly	231	191	Grant right-of-way	SW of former CCC/USDA property.
9/2/2005	9/2/2005	9	4	S	5	E	SW	Oberhelman	231	195	Grant right-of-way	W of former CCC/USDA property.
9/2/2005	9/2/2005	9	4	S	5	E	SW	Oberhelman	231	199	Grant right-of-way	W of former CCC/USDA property.

Source: Washington County, Kansas, Register of Deeds.

This instrument was filed for record on the 6 day of Dec. A. D. 1923, at 1:30 O'clock P. M. and duly recorded in book 94 of Deeds on page 636.
(SEAL) H. W. Stearns, Register of Deeds.

RIGHT OF WAY CONTRACT.

J. W. Baxter

TO

Sinclair Pipe Line Co.

For and in consideration of the sum of \$46.50 the receipt of which is hereby acknowledged, J. W. Baxter hereafter called grantors, hereby grant unto Sinclair Pipe Line Co. a Maine corporation, hereafter called grantee, the right to lay, maintain, inspect, operate, replace, change or remove a pipe line for the transportation of oil or gas, on, over and through the following described land of which grantors warrant they are the owners in fee simple situated in Washington County, State of Kansas, to-wit: ----- The N $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 9, Township 4 S. Range 5 E. the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 9, Township 4 S. Range 5 E. the E $\frac{1}{2}$ of SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 9 Township 4 S. range 5 E. ----- together with the right of ingress and egress to and from said land for any and all purposes necessary and incident to the exercise by said grantee of the rights granted by this contract.

And for an additional consideration of one (\$1.00) Dollar, the receipt of which is hereby acknowledged, said grantors hereby grant unto said grantee the right at any time to lay, maintain, operate, inspect, replace, change or remove an additional pipe line or pipe lines alongside of said first pipe line for the transportation of oil or gas on, over and through said land, and grantee agrees to pay grantors for each additional pipe line placed on said land by it the sum of forty six and 50/100 Dollars on or before the time grantee commences to construct such pipe line on, over and through said land.

Grantors reserve the right to use said land for any and all purposes except the purposes hereby granted to said grantee. Grantee agrees to pay any damages caused to growing crops, pasturage and fences of grantors on said land caused by grantee's operations hereunder on said land. In the event the parties hereto cannot agree upon the amount of said damages, then the amount thereof shall be ascertained and determined by three disinterested persons selected as follows: One by said grantor's one by said grantee and the third by two so selected, and the written award of said three persons so selected shall be final and conclusive on the parties hereto. Any pipe line laid hereunder shall be buried so it will not interfere with the cultivation of the surface of said premises.

It is agreed that any payment hereunder may be made direct to said grantors or any one of them, or by depositing such payment to the credit of grantors or any one them in the Beatrice National Bank, of Beatrice, Nebraska, and payment so made shall be deemed and considered as payment to each of said grantors; and that the terms, conditions and provisions of this contract shall extend to and be binding upon the heirs, executors, administrators, personal representatives, successors and assigns of the parties hereto.

All telegraph or telephone poles to be placed on public road or on and along the property line of the above described land.

In Witness Whereof, the parties have hereto set their hands and seals this 18th day of October, 1923.

Signed, sealed and delivered in the presence of
Ralph H. Shaw.

John W. Baxter (SEAL)

For assignment see Book 77 Page 367

OK.
94
Pg 637

State of N. Y.)
) ss.
 New York County)

Before me, George Jacques, in and for said county and State on this 18th day of October, 1923, personally appeared John W. Baxter, to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as free and voluntary act and deed for the uses and purposes therein set forth (SEAL)

George Jacques, Notary Public,
 Commissioner of Deeds, City of New York
 Residing in New York County, New York Co.
 Clerk's No. 47, New York Co.'s Register's
 No. 25020, Commission Exp. Apr. 3rd, 1925.

State of Kansas)
) ss.
 Washington County)

This instrument was filed for record on the 6 day of Dec. A. D. 1923, at 1:30 1'clock P. M. and duly recorded in book 94 of Deeds on page 637.
 (SEAL)

H. W. Stearns, Register of Deeds.

RIGHT OF WAY CONTRACT.

E. F. and Ernest J. Champagne TO Sinclair Pipe Line Co.

For and in consideration of forty five and 75/100 Dollars to them in hand paid, receipt of which is hereby acknowledged, E. F. Champagne and Ernest J. Champagne, Brothers, of Haddam, Kansas, R. F. D. No. 3, does hereby grant to Sinclair Pipe Line Company, a corporation of State of Maine, its successors or assigns, the right of way to lay, maintain, operate and remove a pipe line or pipe lines for the transportation of oil or gas, and erect maintain and operate telegraph or telephone lines, if the same shall be found necessary, on, over and through the following described lands, situated in Washington County, State of Kansas, to-wit: ----- South West $\frac{1}{4}$ and the S $\frac{1}{2}$ of the NW $\frac{1}{4}$ Section 6 township 2, Range 2----- with ingress and egress to and from the same for all purposes necessary in connection with the construction maintenance and operation of said pipe line and telegraph and telephone line.

To Have and to Hold unto the said grantee, its successors or assigns, so long as such line or lines shall be maintained for the purpose of constructing, inspecting, repairing, operating, and maintaining the same and the removal of such at will, in whole or in part. The said grantors, to fully use and enjoy the said premises except for the purposes hereinafter granted to the said grantee, its successors, or assigns, who hereby agree to pay any damages which may arise to crops or fences from the laying, erecting, maintaining, repairing and operating of said pipe, telegraph and telephone lines; said damages, if not mutually agreed upon, to be ascertained and determined by three disinterested persons, one thereof to be appointed by the said grantors, their heirs or assigns, one by the grantee, its successors or assigns, and the third by the two so appointed as aforesaid, and the written, signed award of such three persons shall be final and conclusive. Should more than one pipe line be laid under this grant at any time the sum of twenty five cents per rod shall be paid for each additional line so laid, besides the damages above provided for. Should it become necessary to change the size of the pipe, the damage, if any in making such change to be paid by the said grantee, its successors, or assigns. It is further agreed that said pipes shall be buried to a sufficient depth so as not to interfere with the cultivation of the soil.

It is hereby understood that the party securing this grant in behalf of the grantee is without authority, to make any covenants or agreements not herein expressed.

Witness our hands and seals this 26th day of March, 1923.

Signed, and delivered in the presence of
 the undersigned witnesses:
 M.G. McCaslin
 E.C. Ailor.

E. F. Champagne (SEAL)
 Ernest J. Champagne (SEAL)

County of Washington)
) ss.
 State of Kansas)

I, C. E. Rust, Notary Public within and for the County and State aforesaid, do hereby certify that on this 26 day of Mch, 1923, before me personally appeared E. J. Champagne who personally known to me to be the same person described in and whose name is subscribed to and who executed the foregoing instrument and duly acknowledged to me that he signed, sealed and delivered the foregoing instrument as his free and voluntary act and deed for the uses and purpose herein set forth.

(SEAL)

C. E. Rust, Notary Public,
 My commission expires Aug. 29, 1923.

For assignment see Book 77 Page 357

DEED RECORD No. 124

BK.
124
158

FROM
Leonard Fagan and Grace Fagan,
husband and wife,

TO
Milton D. Oberhelman and Zasel O. Oberhelman,
husband and wife, to the survivor.

Entered in Transfer Record in my office this 3rd day
of March, A. D., 19 47 .
R. M. Landon, County Clerk.
Veva Bonar, Deputy.

STATE OF KANSAS, WASHINGTON COUNTY, ss.
This instrument was filed for record on the 3rd day
of March, A. D., 19 47, at 9:45
o'clock A. M., and duly recorded in Book 124 Page 158 .
(Seal) W. B. Westing, Register of Deeds.
By, Deputy.

THIS INDENTURE, Made this 1 day of March, A. D., 19 47 ,
between Leonard Fagan and Grace Fagan, husband and wife,
of Washington County, in the State of Kansas, of the first part, and
Milton D. Oberhelman and Zasel O. Oberhelman, his wife, and the survivor of them as
joint tenants and not as tenants in common,
of Washington County, in the State of Kansas, of the second part.

WITNESSETH, That said parties of the first part, in consideration of the sum of
One Dollar and other valuable considerations ----- DOLLARS,
the receipt whereof is hereby acknowledged, do by these presents grant, bargain, sell and convey unto said parties of the second part,

their
heirs and assigns, the following described REAL ESTATE, situated in the County of Washington and the State of Kansas, to-wit:

The Southeast Quarter (SE $\frac{1}{4}$) of Section Nine (9) in Township Four (4) South, of Range Five
(5) East of the Sixth Principal Meridian, except that part of said Quarter Section which
is included in Claypool's Addition to the Town of Barnes and described as follows:
Beginning at the southwest corner of the Southeast Quarter (SE $\frac{1}{4}$) of Section Nine (9),
Thence North on the West line of said Quarter Section One Thousand One Hundred Fifty (1150)
feet, thence East on a line parallel with the South line of said Quarter Section, Six
Hundred Forty Four (644) feet, Thence South on a line parallel with the West line of said
Quarter Section One Thousand One Hundred Fifty (1150) feet to the South line thereof,
Thence West on the said South line Six Hundred Forty Four (644) feet to the place of
beginning; containing 143 acres, more or less; Washington County, Kansas.

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereunto
belonging or in anywise appertaining, forever.

And said Leonard Fagan and Grace Fagan, husband and wife, for themselves, and for their
heirs, executors or administrators, do hereby covenant, promise and agree, to and with said parties of the second
part, that at the delivery of these presents they are lawfully seized in their own right, of an absolute
and indefeasible estate of inheritance, in fee simple, of and in all and singular the above-granted and described premises, with the appurtenances;
that the same are free, clear, discharged and unincumbered of and from all former and other grants, titles, charges, estates, judgments, taxes,
assessments and incumbrances of what nature or kind soever:

and that they will WARRANT AND FOREVER DEFEND the same unto said parties of the second part their
heirs and assigns, against said parties of the first part, their heirs, and all and every person or persons, whomsoever, lawfully
claiming or to claim the same.

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hand & the day and year first
above written.

\$7.70 U.S. Documentary Revenue
Stamps Attached and Cancelled.

Leonard Fagan
Grace Fagan

STATE OF KANSAS, Washington COUNTY, ss.
BE IT REMEMBERED, That on this 1st day of March, A. D., 19 47, before me, the undersigned,
a Notary Public in and for the County and State aforesaid, came Leonard Fagan and Grace Fagan, husband and wife
who are personally known to me to be the same persons who executed the within instrument of
(SEAL) writing, and such persons duly acknowledged the execution of the same.
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal,
the day and year last above written.

S. H. Padgett, Notary Public.
Term Expires July 15, 1947.

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FROM
Milton D. Oberhelman and Zasel O. Oberhelman
husband and wife

TO
Ernest E. Clark and Nancy J. Clark
his wife, or to the survivor.

Entered in Transfer Record in my office this 20 day of
March, A. D. 19 47.
R. M. Landon, County Clerk.
Veva Bonar, Deputy.
STATE OF KANSAS, Washington County, ss.
This instrument was filed for record on the 20 day of
March, A. D. 19 47, at 8:30 o'clock
A. M., and duly recorded in Book 122 Page 98.
(Seal) W. B. Westing, Register of Deeds.
By, Deputy.

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Pg. 98
LD 7

KNOW ALL MEN BY THESE PRESENTS, That Milton D. Oberhelman and Zasel O. Oberhelman,
husband and wife,

in consideration of Sixty Five Hundred Twenty Seven & 50/100 DOLLARS
in hand paid, do hereby grant, bargain, sell, convey and confirm unto Ernest E. Clark and Nancy J. Clark, husband and wife

as JOINT TENANTS, and not as tenants in common; the following described REAL ESTATE, situated in the County of Washington and State of Kansas, to-wit:

The South East Quarter (SE $\frac{1}{4}$) of Section Nine (9), in Township Four (4) South, of Range Five (5), East of the 6th P.M., -except that part of the South east Quarter (SE $\frac{1}{4}$) of Section Nine (9), in Twp. Four (4), South, of Range Five (5), which is included in Claypool's addition to the Town of Barnes and described as follows: Beginning at the Southwest corner of the Southeast Quarter (SE $\frac{1}{4}$) of Section Nine (9), Twp. 4, Range 5, Thence North on the West line of said Quarter Section One Thousand One Hundred Fifty (1150) feet, Thence east on a line parallel with the South line of said Quarter Section, Six Hundred Forty Four (644) feet, Thence South on a line parallel with the West line of said Quarter Section, One Thousand One Hundred Fifty (1150) feet to the South line thereof, Thence West on the said South line Six Hundred Forty Four (644) feet to the place of beginning, containing (143) acres, more or less

together with all the tenements, hereditaments, and appurtenances to the same belonging, and all the estate, title, dower, right of homestead, claim or demand whatsoever of the said grantor S, of, in, or to the same, or any part thereof; subject to

IT BEING THE INTENTION OF ALL PARTIES HERETO, THAT IN THE EVENT OF THE DEATH OF EITHER OF SAID GRANTEEES, THE ENTIRE FEE SIMPLE TITLE TO THE REAL ESTATE DESCRIBED HEREIN SHALL VEST IN THE SURVIVING GRANTEE.

TO HAVE AND TO HOLD the above described premises, with the appurtenances, unto the said grantees as JOINT TENANTS, and not as tenants in common, and to their assigns, or to the heirs and assigns of the survivor of them, forever, and they the grantor S named herein for themselves and their heirs, executors, and administrators, do covenant with the grantees named herein and with their assigns and with the heirs and assigns of the survivor of them, that they are lawfully seized of said premises; that they are free from incumbrance except as stated herein, and that they the said grantor S have good right and lawful authority to sell the same, and that they will and their heirs, executors and administrators shall warrant and defend the same unto the grantees named herein and unto their assigns and unto their heirs and assigns of the survivor of them, forever, against the lawful claims of all persons whomsoever, excluding the exceptions named herein.

IN WITNESS WHEREOF, We have hereunto set our hand s this 15th day of March, A. D. 1947.

~~XXXX~~

In presence of
\$7.70 U.S. Documentary Revenue
Stamps Attached and Cancelled.

Milton D. Oberhelman
Zasel O. Oberhelman

STATE OF KANSAS, Washington County, ss.

On this 15th day of March, A. D. 19 47, before me, a Notary Public, in and for said County, personally came the above named Milton D. Oberhelman and Zasel O. Oberhelman, husband and wife,
who are personally known to me to be the identical person s whose name s
(SEAL) and they have acknowledged said instrument to be their voluntary act and deed.

WITNESS my hand and Notarial Seal the date last aforesaid.

C. M. Clark, Notary Public.
Barnes, Washington Co. Kans.
A. D. 19 49.

My commission expires on the 7th day of February

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LEASE AGREEMENT:

From Ernest E. Clark, Lessor.

To Washington County Agricultural Conservation.

THIS AGREEMENT, made and entered into this thirtieth day of August 1949 by and between Ernest E. Clark, hereinafter called the "Lessor" of Barnes, Kansas and the Washington County Agricultural Conservation hereinafter called the "Association" of Washington, Kansas.

IN CONSIDERATION of a rental of \$20.00 per year, payable on October 1 of each year, the Lessor hereby leases to the Association for the period beginning September 1, 1949 and ending October 1, 1954, approximately 68,020 square feet of space in Block _____, Lot _____, Subdivision _____ Town of: or the South West corner of the South East of 1/4 Section Nine, Township Four, Range Five in the County of Washington State of Kansas, to permit the placing thereon of CCC owned granaries. This space is located as indicated herein:

Said parcel of Land lying directly East of the South East Corner of the City Park, City of Barnes, so described as the South West Corner of the SE 1/4 9-4-5, as follows: Starting at the Southwest corner of the Southeast 1/4 9-4-5 of Washington County 190 feet North; thence 358 feet East; thence 190 feet South; thence 380 feet West to point of beginning.

It is understood that the Association is to store grain in said granaries and it is, therefore, hereby agreed that the Association shall have the right of ingress and egress at any time to the space herein leased. Said granaries shall not be considered as affixed to said real estate and the Association shall have the right to remove any or all of said granaries at any time.

Provided, however, the Lessor hereby reserves unto itself, and/or its lessee, the right to operate, maintain and renew such pipe lines, electric transmission lines, telephone lines, telegraph lines, signal lines and other facilities of like character as may exist upon, under or over the leased premises as of the date of this lease, it being agreed that this lease is subject and subordinate to any and all rights granted by the lessor for any such existing lines and facilities.

It is especially agreed and understood by and between the parties hereto that no building, structure, pile of wood, coal, stone or other obstruction shall be located at a distance nearer than six (6) feet from the nearest rail of any track of the lessor, but, nevertheless, the Association may erect loading platforms which shall not be higher than three (3) feet six (6) inches above the top of the rails and which at no point shall be nearer than four (4) feet from the nearest rail of any such track; provided, however, if by statute or order of competent public authority different clearance shall be required than those provided for in this paragraph then the Association shall strictly comply with such statute or order.

It is further agreed that upon the expiration of this lease, or in case the Association shall in any manner fail to comply with the terms and conditions hereof, the Association shall, forthwith, cease to use or remain upon said premises and shall remove all the improvements placed thereon by the Association and restore said premises to substantially their former state.

If the Association fails to surrender to the lessor the leased premises upon any termination or expiration of this lease, all the liabilities and obligations of the Association hereunder shall continue in effect until the leased premises are surrendered, and no termination or expiration hereof shall release the Association from any liability or obligation hereunder which theretofore or thereafter may accrue.

The Lessor grants and gives the Lessee the option, at any time while this lease is in effect, to purchase said property from the Lessor, his heirs, executors, administrators, and assigns, for the sum of Two-Hundred and no/100 Dollars (\$200.00). In the event the Lessee shall exercise this option to purchase said property, the Lessor agrees to execute a good and sufficient warranty deed conveying fee simple title to said property free and clear of all taxes, liens, or encumbrances except for the following, and no others.

It is further agreed that this lease shall be binding upon the Association and assigns of the Association, and shall inure to the benefit of the lessor, its successors and assigns.

No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit to arise therefrom. Nothing, however, herein contained shall be construed to extend to any incorporated company, if the agreement be for the general benefit of such corporation or company.

IN TESTIMONY WHEREOF, the parties have executed this instrument in duplicate the day and year first above written.

Anthony Wray
Witness
W.C. Pelesky,
Witness.

Ernest E. Clark (Lessor)
Washington County Agricultural
Conservation Association
By Anthony Wray, Chairman
County Committee.

State of Kansas, County of Washington, ss.

BE IT REMEMBERED, That on this Thirtieth day of August, A.D. 1949, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came Ernest E. Clark, Lessor and Anthony Wray, Chairman County Committee, who are personally known to me to be the same person's who executed the within instrument of writing, and such persons duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Seal, the day and year last above written.

(SEAL)

Louie Kramer

Term expires Sept. 28, 1951.

State of Kansas, Washington County, ss.

This instrument was filed for record on the 23rd day of February A.D. 1950 at 2 o'clock P.M., and duly recorded in book 128 of Deeds, on page 162.

(SEAL)

W.B. Westing, Register of Deeds.

LEASE AGREEMENT:

From Chas. J. Mueller and Emil H. Mueller, To
Lessors.

Washington County Agricultural
Conservation

THIS AGREEMENT, made and entered into this 15 day of September, 1949 by and between Chas. J. Mueller and Emil H. Mueller, hereinafter called the "Lessor" of Hanover, Kansas, and the Washington County Agricultural Conservation, hereinafter called the "Association" of Washington, Kansas.

IN CONSIDERATION of a rental of \$25.00 per year, payable on October 1 of each year, the Lessor hereby leases to the Association for the period beginning September 15th, 1949 and ending October 1, 1954, approximately 69274.5 square feet of space in Block _____, Lot _____, Subdivision _____ of Town of _____; or the _____ of the S.W. Corner of S.W. of 1/4 Section Eight Township Two, Range Five in the County of Washington, State of Kansas, to permit the placing thereon of CCC owned granaries. This space is located as indicated herein:

Beginning at a point 320 feet North of the Southwest corner of the Southwest quarter of Section Eight Township Two Range Five (SW 1/4-8-2-5) Washington County, State of Kansas, thence 215 feet East, thence 380 ft., North, thence 190 ft. West to point of intersection of present fence line, thence South 107 feet, thence East 75 feet, thence South 100 feet, thence West 103 feet to point intersecting with present fence line, thence South 173 feet to point of beginning.

It is further agreed between all parties hereto that said Lease may be extended at the above stated rental consideration (\$25.00) per year at the option of the said Association for a period of 15 years from the expiration date hereof.

It is understood that the Association is to store grain in said granaries and it is, therefore, hereby agreed that the Association shall have the right of ingress and egress at any time to the space herein leased. Said granaries shall not be considered as affixed to said real estate and the Association shall have the right to remove any or all of said granaries at any time.

Provided, however, the Lessor hereby reserves unto itself, and/or its lessee, the right to operate, maintain and renew such pipe lines, electric transmission lines, telephone lines, telegraph lines, signal lines and other facilities of like character as may exist upon, under or over the leased premises as of the date of this lease, it being agreed that this lease is subject and subordinate to any and all rights granted by the lessor for any such existing lines and facilities.

It is especially agreed and understood by and between the parties hereto that no building, structure, pile of wood, coal, stone or other obstruction shall be located at a distance nearer than six (6) feet from the nearest rail of any track of the lessor, but, nevertheless, the Association may erect loading platforms which shall not be higher than three (3) feet six (6) inches above the top of the rails and which at no point shall be nearer than four (4) feet from the nearest rail of any such track; provided, however, if by statute or order of competent public authority different clearance shall be required than those provided for in this paragraph then the Association shall strictly comply with such statute or order.

It is further agreed that upon the expiration of this lease, or in case the Association shall in any manner fail to comply with the terms and conditions hereof, the Association shall, forthwith, cease to use or remain upon said premises and shall remove all the improvements placed thereon by the Association and restore said premises to substantially their former state.

If the Association fails to surrender to the lessor the leased premises upon any termination or expiration of this lease, all the liabilities and obligations of the Association hereunder shall continue in effect until the leased premises are surrendered, and no termination or expiration hereof shall release the Association from any liability or obligation hereunder which therefore or thereafter accrue.

It is further agreed that this lease shall be binding upon the Association and assigns of the Association, and shall inure to the benefit of the lessor, its successors and assigns.

No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit to arise therefrom. Nothing, however, herein contained shall be construed to extend to any incorporated company, if the agreement be for the general benefit of such corporation or company.

BE IT REMEMBERED, That on this 24th day of September A.D. 1954, before me, the undersigned, Notary Public in and for the County and State aforesaid, came Grace L. Mueller, Helen E. Mueller, Chas. J. Mueller and Emil H. Mueller, and Calvin H. Smith, Chairmen, Washington County ASC and Contracting Officer, who are personally known to me to be the same persons who executed the within instrument of writing, and such persons duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Notarial seal, the day and year last above written.

(SEAL)

A.W. Soller, Notary Public

My Term expires May 7, 1955.

State of Kansas, Washington County, ss.

This instrument was filed for record on the 10th day of December A.D. 1954, at 4 o'clock P.M., and duly recorded in book 132 of Deeds on page 81.

(SEAL)

W.B. Westing, Register of Deeds.

LEASE OF PROPERTY:

From Ernest E. Clark & Nancy J. Clark To Commodity Credit Corporation.

U.S. Department of Agriculture
Agriculture Stabilization and Conservation
Commodity Credit Corporation

THIS LEASE, made and entered into this 24th day of September, 1954, by and between Ernest E. Clark & Nancy J. Clark of Barnes, Kansas, Lessor, and Commodity Credit Corporation, Lessee.

WITNESSETH THAT:

1. The Lessor leases to the Lessee, and the Lessee hereby leases from the Lessor, upon the terms and conditions hereinafter stated, the following described real estate (hereinafter called "property") situated in the County of Washington and State of Kansas: Said parcel of Land lying directly east of the South East Corner of the City Park, City of Barnes, so described as the South West corner of the SE 1/4 9-4-5, as follows: Starting at the SW corner of the SE 1/4 9-4-5 of Washington Co. 190 feet north; thence 358 feet east; thence 190 feet south; thence 380 feet west to point of beginning. Containing 1.5 acres, more or less.

2. The term of the lease shall be for a period of 5 years, commencing the 1st day of October 1954, and ending the 1st day of October, 1959, with the right of the Lessee during such term or any extension thereof, to terminate said lease, and liability for any further rent, on the 1st day of October of any year, by giving thirty days previous notice in writing to the Lessor.

3. As rent for said property, the Lessee shall pay the Lessor thirty no/100 Dollars (\$30.00) per year, such rent to be payable in advance, but to be apportionable in the event the lease is terminated as provided in paragraph 2 hereof.

4. The Lessor warrants that he is the owner of the property, has the right to give the Lessee possession under this lease, and will, so long as this lease remains in effect warrant and defend the Lessee's possession against any and all persons whomsoever.

5. The Lessee shall have the right, during this lease, to erect storage structures, or facilities, make alterations, install scales, fences, or signs, in or upon the premises hereby leased and, at the expiration of said lease or any renewal or extension thereof or at any time this lease is in effect, may remove said storage structures, facilities, scales, fences, or signs or any part thereof, whether or not such structures, facilities, scales, fences or signs have become legally a fixture.

6. The Lessee shall not assign this lease without the written consent of the Lessor. The Lessee, may, however, sublet the structures on the premises leased hereunder, or any one or more of them for the term of the lease or any part thereof upon such terms and conditions as Lessee may wish to so sublet.

7. The Lessee, if required by the Lessor, shall upon the expiration of this lease, or renewal thereof, restore the premises to the same condition as that existing at the time of entering upon the same under this lease, reasonable and ordinary wear and tear and damages by the elements or by circumstances over which the Lessee has no control excepted. Provided, however, that if the Lessor requires such restoration, the Lessor shall give written notice thereof to the Lessee Thirty days before the termination of the lease.

8. The Lessor grants and gives the Lessee the option as a consideration of this lease and for the further consideration of one dollar, the receipt of which is hereby acknowledged, to renew said lease for a period of 5 years from the Lessor, his heirs, executors, administrators, and assigns, for the sum of Thirty no/100 Dollars (\$30.00) per year.

9. In the event any increased tax assessment is made against the Lessor or the property by virtue of the erection of storage structures and facilities thereupon by the Lessee, the Lessor agrees to cooperate fully in any contest of such increased assessment which the Lessee feels should be made. The Lessee agrees that the rental hereunder shall be adjusted upward by the amount of any such increased tax assessment which the Lessor and Lessee mutually agree to be proper or which is determined to be legally valid in court proceedings.

11. No member of or Delegate to Congress or Resident Commissioner, shall be admitted to any share or part of this lease or purchase or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this lease or purchase if made with a corporation for its general benefit.

12. The Lessor warrants that he has not employed any person to solicit or secure this lease upon any agreement for a commission, percentage, brokerage, or contingent fee and that no such consideration or payment has been or will be made. Breach of this warranty shall give CCC the right to annul the lease, or, in its discretion, to deduct from the rental or purchase price the amount of such commission, percentage, brokerage or contingent fees. This warranty shall not apply to commissions payable by the Lessor if the lease is secured or made through a bona-fide agent maintained by the lessor for the purpose of leasing or selling his property.

(SEAL) Ernest Clark
(Seal) Nancy J. Clark
Lessor

Commodity Credit Corporation
Lessee
By Calvin H. Smith
Chairman, Washington County
ASC Committee

State of Kansas, County of Washington, ss.

BE IT REMEMBERED, That on this 24th day of September, A.D. 1954, before me, the undersigned, Notary Public in and for the County and State aforesaid, came Ernest E. Clark, Nancy J. Clark, and Calvin H. Smith, Chairman, Washington County ASC and Contracting Officer, who are personally known to me to be the same persons who executed the within instrument of writing, and such persons duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Notarial seal, the day and year last above written.

(SEAL)

A.W. Soller, Notary Public.

Term expires May 7, 1955.

State of Kansas, Washington County, ss.

This instrument was filed for record on the 10th day of December A.D. 1954, at 4 o'clock P.M., and duly recorded in book 132 of Deeds on page 82.

(SEAL)

W.B. Westing, Register of Deeds.

LEASE TO PROPERTY:

From Theodore Rabe and Sophia Rabe,
his wife

To

Commodity Credit Corporation

U.S. Department of Agriculture
Agriculture Stabilization and Conservation
Commodity Credit Corporation

Supplemental Lease to Palmer
Site-006, Palmer, Kansas

THIS LEASE, made and entered into this 31st day of July, 1954, by and between Theodore Rabe and Sophia Rabe, his wife, of Palmer, Kansas, Lessor, and Commodity Credit Corporation, Lessee.

WITNESSETH THAT:

1. The Lessor leases to the Lessee, and the Lessee hereby leases from the Lessor, upon the terms and conditions hereinafter stated, the following described real estate (hereinafter called "property") situated in the County of Washington and State of Kansas: Commencing at the South West corner of the land already leased, (which is 130' due west of the SE 1/4 Sec. 13-5-2 and then due north 230 ft.) thence 20 feet due west, thence due north 230 ft. thence due east 20 feet, and south 230 feet to the point of beginning. 2600 sq. ft. of space. Containing .10 acres, more or less.
2. The term of the lease shall be for a period of five years, commencing the 31st day of July, 1954, and ending the 31st day of July, 1959, with the right of the Lessee, during such term or any extension thereof, to terminate said lease, and liability for any further rent, on the 31 day of July of any year, by giving thirty days previous notice in writing to the Lessor.
3. As rent for said property, the Lessee shall pay the Lessor Fifty and no/100 Dollars (\$50.00) per year, such rent to be payable in advance, but to be apportionable in the event the lease is terminated as provided in paragraph 2 hereof.
4. The Lessor warrants that he is the owner of the property, has the right to give the Lessee possession under this lease, and will, so long as this lease remains in effect, warrant and defend the Lessee's possession against any and all persons whomsoever.
5. The Lessee shall have the right, during this lease, to erect storage structures, or facilities, make alterations, install scales, fences, or signs, in or upon the premises hereby leased and, at the expiration of said lease or any renewal or extension thereof or at any time this lease is in effect, may remove said storage structures, facilities, scales, fences, or signs or any part thereof, whether or not such structures, facilities, scales, fences or signs have become legally a fixture.
6. The Lessee shall not assign this lease without the written consent of the Lessor. The Lessee, may, however, sublet the structures on the premises leased hereunder, or any one or more of them for the term of the lease or any part thereof upon such terms and conditions as Lessee may wish to so sublet.
7. The Lessee, if required by the Lessor, shall upon the expiration of this lease, or renewal thereof, restore the premises to the same condition as that existing at the time of entering upon the same under this lease, reasonable and ordinary wear and tear

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ASSIGNMENT OF RIGHTS OF WAY

KNOW ALL MEN BY THESE PRESENTS, THAT:

SERVICE PIPE LINE COMPANY, a Maine corporation, with its principal office in Tulsa, Oklahoma, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable considerations, all cash to it in hand paid by O. R. BURDEN CONSTRUCTION CORP., a Delaware corporation, receipt of which is hereby acknowledged, has bargained, sold, transferred, and assigned, and by these presents does bargain, sell, transfer, and assign unto O. R. Burden Construction Corp., all of Service Pipe Line Company's right, title, and interest in all those certain rights-of-way easements owned by Service Pipe Line Company situated in Washington County, Kansas, and more particularly described in that certain list of pipe line rights-of-way easements marked Exhibit "A" and attached hereto and made a part hereof.

TO HAVE AND TO HOLD the same unto O. R. Burden Construction Corp., its successors and assigns forever, subject nevertheless to the terms, conditions, and provisions of said rights-of-way easements, and Service Pipe Line Company for and on behalf of itself, its successors and assigns, hereby warrants its title under said rights-of-way easements against the claims of any person claiming by, through or under it, but not otherwise.

It is understood and agreed that this assignment of rights of way shall be effective as of August 1, 1955.

WITNESS the hand and seal of Service Pipe Line Company at Tulsa, Oklahoma, this 3rd day of August, A.D., 1955

SERVICE PIPE LINE COMPANY

By J. L. Rhoademaker
Financial Vice President
(J. L. Rhoademaker)

J. O. Middaugh
Secretary
(J. O. Middaugh)

STATE OF OKLAHOMA
COUNTY OF TULSA

Before me, a Notary Public, on this day personally appeared J. L. Rhoademaker, known to me to be the person whose name is subscribed to the foregoing instrument, and known to me to be the Financial Vice President of Service Pipe Line Company, a corporation, and acknowledged to me that he executed said instrument for the purposes and consideration therein expressed, and as the act of said corporation.

Given under my hand and seal of office this 3rd day of August, 1955.

Derive M. Makowski
Notary Public

My commission expires:

State of Kansas
Washington County }
7-27-1955
FILED FOR RECORD
AUG 1 1955
Notary Public
Notary Seal

(A)

This instrument was filed for record on the 5th day of May, 1959, at 11:45 o'clock A.M., and duly recorded in Book 132 of Deeds on Page 442.

(SEAL)

W. B. Westing, Register of Deeds

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LEASE OF PROPERTY

From Ernest E. Clark &
Nancy J. Clark

7

To Commodity Credit Corporation

U. S. Department of Agriculture
Commodity Stabilization Service
Commodity Credit Corporation

THIS LEASE, made entered into this 29th day of April, 1959, by and between Ernest E. Clark & Nancy J. Clark of Barnes, Kansas Lessor, and Commodity Credit Corporation, Lessee.

WITNESSETH THAT:

1. The Lessor leases to the Lessee, and the Lessee hereby leases from the lessor, upon the terms and conditions hereinafter stated, the following described real estate (hereinafter called "property") situated in the County of Washington and State of Kansas:

Said parcel of land lying directly east of the southeast corner of the City Park, City of Barnes, so described as the south west corner of the SE $\frac{1}{4}$ 9-4-5, as follows:

Starting at the SW corner of the SE $\frac{1}{4}$ 9-4-5 of Washington County 190 feet north; thence 358 feet east; thence 190 feet south; thence 358 feet west to point of beginning. Containing 1.5 acres, more or less.

2. The term of the lease shall be for a period of 5 years, commencing the 1st day of October, 1959, and ending the 1st day of October, 1964, with the right of the Lessee, during such term or any extension thereof, to terminate said lease, and liability for any further rent, on the 1st day of October of any year, by giving 30 day's previous notice in writing to the Lessor.

3. As rent for said property, the Lessee shall pay the Lessor Fifty-two and 50/100 - - Dollars (\$52.50) per year, such rent to be payable in advance, but to be apportionable in the event the lease is terminated as provided in paragraph 2 hereof.

4. The Lessor warrants that he is the owner of the property, has the right to give the Lessee possession under this lease, and will, so long as this lease remains in effect, warrant and defend the Lessee's possession against any and all persons whomsoever.

5. The Lessee shall have the right, during this lease, to erect storage structure or facilities, make alterations, install scales, fences, or signs, in or upon the premises hereby leased and, at the expiration of said lease or any renewal or extension

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Pg. 442 & 443

(c)

thereof or at any time this lease is in effect, may remove said storage structures, facilities, scales, fences or signs or any part thereof, whether or not such structures, facilities, scales, fences or signs have become legally a fixture.

6. The Lessee shall not assign this lease without the written consent of the Lessor. The Lessee, may, however, sublet the structures on the premises leased hereunder, or any one or more of them for the term of the lease or any part thereof upon such terms and conditions as Lessee may wish to so sublet.

7. The Lessee, if required by the Lessor, shall, upon the expiration of this lease, restore the premises to the same condition as that existing at the time of entering upon the same under this lease, reasonable and ordinary wear and tear and damages by the elements or by circumstances over which the Lessee has no control excepted: Provided, however, That if the Lessor required such restoration, the Lessor shall give written notice thereof to the Lessee thirty days before the termination of the Lease.

8. The Lessor grants and gives the Lessee the option as a consideration of this lease and for the further consideration of one dollar, the receipt of which is hereby acknowledged, to renew said lease for a period of 5 years from the Lessor, his heirs, executors, administrators, and assigns, for the sum of Fifty-two and 50/100 - DOLLARS, (\$52.50) per year.

9. In the event any increased tax assessment is made against the Lessor or the property by virtue of the erection of storage structures and facilities thereon by the Lessee, the Lessor agrees to cooperate fully in any contest of such increased assessment which the Lessee feels should be made. The Lessee agrees that the rental hereunder shall be adjusted upward by the amount of any such increased tax assessment which the Lessor and Lessee mutually agree to be proper or which is determined to be legally valid in court proceedings.

11. No member or Delegate to congress or Resident Commissioner, shall be admitted to any share or part of this lease or purchase or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this lease or purchase if made with a corporation for its general benefit.

12. The Lessor warrants that he has not employed any person to solicit or secure this lease upon any agreement for a commission, percentage, brokerage, or contingent fee and that no such consideration or payment has been or will be made. Breach of this warranty shall give CCC the right to annul the lease, or, in its discretion, to deduct from the rental or purchase price the amount of such commission, percentage, brokerage, or contingent fees. This warranty shall not apply to commission payable by the Lessor if the lease is secured or made through a bona-fide agent maintained by the Lessor for the purpose of leasing or selling his property.

(Seal) Ernest E. Clark, Lessor
(Ernest E. Clark)
(Seal) Nancy J. Clark, Lessor
(Nancy J. Clark)

COMMODITY CREDIT CORPORATION, LESSEE
By John R. Dummermuth
(John R. Dummermuth)
Chairman, Washington ASC County Committee

State of Kansas, County of Washington, ss.

I, Geneva Barker, Notary Public, do hereby certify that Ernest E. Clark & Nancy J. Clark, to me known to be the persons), who executed the foregoing instrument, personally appeared before me and acknowledged that they executed the same as their free and deed, and that the same was executed on behalf of a corporation, and that the Board of Directors of said corporation has authorized the execution of this instrument on behalf of said corporation and that the corporation is a legal entity.

Given under my official hand and seal, this day of 30th April, 1959.

(SEAL)

Geneva Barker, Notary Public

My Commission expires Jan. 22, 1963.

Geneva Barker, Notary Public
Barnes, Washington Co., Kansas,

State of Kansas, Washington County, ss;

This instrument was filed for record on the 11th day of May, 1959 at 4:45 o'clock P.M., and duly recorded in Book 132 of Deeds on Page 442.

(SEAL)

W. B. Westing, Register of Deeds
By: Karel Johnson, Deputy

EXTENSION OF LEASE

From Ed & Dorothy Beem to Commodity Credit Corporation

This extension of lease made and entered into this 23 day of March, 1959, by and between Ed & Dorothy Beem, hereinafter called lessor, and Commodity Credit Corporation, hereinafter called lessee.

Witnesseth:

Whereas, the parties hereto have heretofore entered into a certain lease dated July 31, 1954, wherein the lessor leased to the Lessee the following described property:

Described as follows - - Commencing at a point 970 feet due east of the northwest corner of the North east quarter of the northwest quarter of Section 21, township four and range five, thence due south 294 feet, Thence due east 194 feet, thence due north 294 feet, thence due west 194 feet to the point of beginning.

for a term ending July 31, 1959 and

Whereas, it is desired by the parties hereto to extend the said lease for an additional term under the same terms and conditions:

the hour of 10 o'clock A.M. and duly recorded in Book 136 of Deeds at Page 280.

(SEAL)

W. B. Westing, Register of Deeds.

EXTENSION OF LEASE

Between Ernest E. & Nancy J. Clark and Commodity Credit Corp.

EXTENSION OF LEASE

"This Extension of Lease made and entered into this 29th day of May, 1963, by and between Ernest E. & Nancy J. Clark, hereinafter called Lessor, and COMMODITY CREDIT CORPORATION, hereinafter called Lessee.

WITNESSETH

Whereas, the parties hereto have heretofore entered into a certain lease dated April 29, 1959, wherein the Lessor leased to the Lessee the following described property:

Said parcel of land lying directly east of the southeast corner of the City Park, City of Barnes, so described as the southwest corner of the SE 1/4 9-4-5, as follows: Starting at the SW corner of the SE 1/4 9-4-5 of Washington County 190 feet north; thence 358 feet east; thence 190 feet south; thence 358 feet west to point of beginning.

For a term ending October 1, 1964, and

Whereas, it is desired by the parties hereto to extend the said Lease for an additional term under the same terms and conditions:

Now Therefore, it is mutually understood and agreed by and between the parties hereto as follows:

- (1) The said Lease is hereby extended for an additional term beginning October 1, 1964, and ending October 1, 1969.
- (2) Lessors grant and give to the Lessee the option of further renewal of the lease for an additional period of five (5) years ending October 1, 1974, under the same terms and conditions of the Lease as extended herein provided the Lessee gives the Lessors written notice to renew at least thirty (30) days prior to the time the Lease, as extended, would otherwise expire.

In Witness Whereof, the parties hereto have executed this extension of Lease on the day first above written.

Ernest E. Clark
Lessor

COMMODITY CREDIT CORPORATION

Nancy J. Clark
Lessor's Spouse

By John R. Dummermuth
Contracting officer

NOTE: It is Necessary to have the above agreement acknowledged and recorded.

ACKNOWLEDGEMENT

I, C.M. Clark, Notary Public, do hereby certify that Ernest E. Clark and Nancy J. Clark, To me known to be the person (or persons) who executed the foregoing instrument, personally appeared before me and acknowledged that he (she or they) executed the same as his (her or their) free act and deed and, in case said instrument was executed the same as his (her or their) free act and deed and, in case said instrument was executed on behalf of a corporation, that he (she or they) as John R. Dummermuth, Contracting Officer, Commodity Credit Corporation was (were) duly authorized by the Board of Directors of said Corporation to execute the said instrument on behalf of said corporation and to affix the Corporate seal thereto.

Given under my official hand and seal this day of May 29, 1963, My Commission Expires Febr. 7, 1965.

(SEAL)

C.M. Clark, Notary Public
C.M. Clark, Notary Public,
Barnes, Washington Co., Kans,

BK 136
Pg. 280
(10)

My commission expires: May 25, 1971.

Notary Public

STATE OF KANSAS, WASHINGTON COUNTY, 3S:

The above lease of Property was filed for record on June 6, 1969 at 9:30 o'clock A.M., and recorded in Volume 136, Page 507.
State of Kansas, County of Washington.

(SEAL)

W.B. Westing
Register of Deeds

LEASE OF PROPERTY

FROM Ernest E. Clark & Nancy J. Clark

TO Commodity Credit Corporation

THIS LEASE, made and entered into this 26th day of May, 1969, by and between Ernest E. Clark & Nancy J. Clark of Barnes, Kansas 66933 (hereinafter called the "Lessor"), and Commodity Credit Corporation, (hereinafter called the "Lessee").

WITNESSETH THAT:

1. The Lessor leases to the Lessee, and the Lessee hereby leases from the Lessor, upon the terms and conditions hereinafter stated, the following described real estate (hereinafter called "property") situated in the County of Washington and State of Kansas, 66968.

Beginning at a point 1320 feet south and 115 feet east of the NW corner of the SE 1/4 9-4-5, then 152 feet east, then 180 feet south, then 152 feet west, then 180 feet north to the point of beginning. Containing .6 acres, more or less.

2. The term of the lease shall be for a period of 5 years, commencing the 1st day of October, 1969, and ending the 1st day of October, 1974, with the right of the Lessee, at any time during such term or any extension thereof, to terminate said lease, and liability for any further rent, by giving 30 days' previous notice in writing to the Lessor.

3. As rent for said property, the Lessee shall pay the Lessor Forty Dollars (\$40.00) per year, such rent to be payable in advance, but to be apportionable in the event the lease is terminated as provided in paragraph 2 hereof:

4. The Lessor warrants that he is the owner of the property, has the right to give the Lessee possession under this lease, and will, so long as this lease remains in effect, warrant and defend the Lessee's possession against any and all persons whomsoever.

5. The Lessee shall have the right, during this lease, to erect storage structures or facilities, make alterations, install scales, fences, or signs, in or upon the premises hereby leased and, at the expiration of said lease or any renewal or extension thereof or at any time this lease is in effect, may remove said storage structures, facilities, scales, fences or signs or any part thereof, whether or not such structures, facilities, scales, fences or signs have become legally a fixture.

6. The Lessee shall not assign this lease without the written consent of the Lessor. The Lessee, may, however, sublet the structures on the premises leased hereunder, or any one or more of them for the term of the lease or any part thereof upon such terms and conditions as Lessee may wish to so sublet.

7. The Lessee, if required by the Lessor, shall upon the expiration of this lease, restore the premises to the same condition as that existing at the time of first entering upon the same under this lease or under any prior lease from the Lessor to the Lessee which has been continuous, reasonable and ordinary wear and tear and damages by the elements or by circumstances over which the Lessee has no control excepted: Provided, however, That if the Lessor requires such restoration, the Lessor shall give written notice thereof to the Lessee Thirty days before the termination of the lease.

BK 136
507
29

(12)

8. The Lessor grants and gives the Lessee the option as a consideration of this lease and for the further consideration of one dollar, the receipt of which is hereby acknowledged, to renew said lease for a period of 5 years from the Lessor, his heirs, executors, administrators, and assigns, for the sum of Forty Dollars (\$40.00) per year.

9. As a consideration of this lease and for the further consideration of one dollar, the receipt of which is hereby acknowledged, the Lessor grants and gives the Lessee the option, at any time while this lease is in effect, to purchase said property from the Lessor, his heirs, executors, administrators, and assigns, for the sum of _____ Dollars (\$ _____). In the event the Lessee shall exercise this option to purchase said property, the Lessor agrees to furnish at his own expense an abstract of title, certificate of title, or other evidence of title satisfactory to CCC and to execute a good and sufficient warranty deed conveying fee simple title to said property free and clear of all taxes, liens, or encumbrances except for the following, and no others.

10. In the event any increased tax assessment is made against the Lessor or the property by virtue of the erection of storage structures and facilities thereon by the Lessee, the Lessor agrees to cooperate fully in any contest of such increased assessment which the Lessee feels should be made. The Lessee agrees that the rental hereunder shall be adjusted upward by the amount of any such increased tax assessment which the Lessor and Lessee mutually agree to be proper or which is determined to be legally valid in court proceedings.

11. No member of or Delegate to Congress or Resident Commissioner, shall be admitted to any share or part of this lease or purchase or to any benefit that may arise therefrom but this provision shall not be construed to extend to this lease or purchase if made with a corporation for its general benefit.

12. The Lessor warrants that he has not employed any person to solicit or secure this lease upon any agreement for a commission, percentage, brokerage, or contingent fee and that no such consideration or payment has been or will be made. Breach of this warranty shall give CCC the right to annul the lease, or, in its discretion, to deduct from the rental or purchase price the amount of such commission, percentage, brokerage, or contingent fees. This warranty shall not apply to commissions payable by the Lessor if the lease is secured or made through a bona-fide agent maintained by the Lessor for the purpose of leasing or selling the property.

(SEAL) Ernest E. Clark, Lessor
(Ernest E. Clark)

COMMODITY CREDIT CORPORATION, LESSEE

(SEAL) Nancy J. Clark, Lessor
(Nancy J. Clark)

By: Victor Kruse, Chairman Washington
ASC County Committee, Contracting
Officer.

ACKNOWLEDGMENT

I, A.M. Nease, Jr. do hereby certify that Ernest E. and Nancy J. Clark, to me known to be the person (or persons) who executed the foregoing instrument, personally appeared before me and acknowledged that he (she or they) executed the same as his (her or their) free act and deed and, in case said instrument was executed on behalf of a corporation, that he (she or they) as _____

(insert name of officer(s) and his (her or

their) official title(s) _____ (Name of corporation)
was (were) duly authorized by the Board of Directors of said corporation to execute the said instrument on behalf of said corporation and to affix the corporate seal thereto.

Given under my official hand and seal this day of May 26, 1969.

(SEAL)
My commission expires: April 4, 1971.

A.M. Nease, Jr.
(A.M. Nease, Jr.)
Notary Public

STATE OF KANSAS, WASHINGTON COUNTY, SS:

The above Lease of Property was filed for record on June 6, 1969, at 9:30 o'clock A.M. and recorded in Volume 136, Page 509.

State of Kansas, County of Washington.

(SEAL)

W.B. Westing
Register of Deeds

LOCKWOOD LITHO. ATCHISON O-81-F

FROM

Ernest E. Clark and Nancy J. Clark

STATE OF KANSAS, County of Washington

This instrument was filed for record on the 8th

TO

Barnett Oil, Inc.

November 1974, at 10:30 o'clock A.M.
and duly recorded in Book "J" Page 268 of
the records of this office. W. B. Westing
Register of Deeds.

(SEAL)

By

Deputy

THIS AGREEMENT, Entered into this 26th day of September

1974

between

Ernest E. Clark and Nancy J. Clark, his wife

125 E. Walnut

Waterville, Ks.

and

Barnett Oil, Inc. Wichita, Kansas

hereinafter called lessor,

hereinafter called lessee, does witness:

1. That lessor, for and in consideration of the sum of One & more Dollars in hand paid and of the covenants and agreements hereinafter contained to be performed by the lessee, has this day granted, leased and let and by these presents does hereby grant, lease, and let exclusively unto the lessee, the hereinafter described land, and with the right to utilize this lease or any part thereof with other oil and gas leases as to all or any part of the lands covered thereby as hereinafter provided, for the purpose of carrying on geological, geophysical and other exploratory work, including core drilling, and the drilling, mining, and operating for, producing, and saving all of the oil, gas, casinghead gas, casinghead gasoline and all other gases and their respective constituent vapors, and for constructing roads, laying pipe lines, building tanks, storing oil, building power, stations, telephone lines and other structures thereon necessary or convenient for the economical operation of said land alone or conjointly with neighboring lands, to produce, save, take care of, and manufacture all of such substances, and for housing and boarding employees, said tract of land with any reversionary rights therein being situated in the County of Washington, State of Kansas, and described as follows:

Clark's Attached Rider

The Southeast Quarter (SE $\frac{1}{4}$) of Section Nine (9), in Township Four (4) South, Range Five (5) East of the Sixth (6th) P.M., except that part of the Southeast Quarter (SE $\frac{1}{4}$) of said Section which is included in Claypool's Addition to the Town of Barnes and described as follows: Beginning at the Southwest corner of the Southeast Quarter (SE $\frac{1}{4}$) of Section 9, twp 4, rge 5, thence North on the west line of said Quarter Section 1150 feet, thence East on a line parallel with the South line of said Quarter Section 644 feet, thence South on a line parallel with the West line of said Quarter Section 1150 feet to the South line thereof, thence West on the said South line 644 feet to the place of beginning, containing (143) acres, more or less.

E.E.C.

before the rental paying date, either direct to lessor or assigns or to said depository bank, and it is understood and agreed that the consideration first recited herein, the down payment, covers not only the privilege granted to the date when said first rental is payable as aforesaid, but also the lessee's option of extending that period as aforesaid and all other rights conferred. Notwithstanding the death of the lessor or his successors in interest, the payment or tender of rentals in the manner above shall be binding on the heirs, devisees, executors, and administrators of such persons.

8. Lessee, at its option, is hereby given the right to pool or combine the acreage covered by this lease or any portion thereof with other land, lease or leases in the immediate vicinity thereof, when in Lessee's judgment it is necessary or advisable to do so in order to properly develop and operate said lease premises so as to promote the conservation of oil, gas or other minerals in and under and that may be produced from said premises, such pooling to be of tracts contiguous to one another and to be into a unit or units not exceeding 40 acres each, in the event of an oil well, or into a unit or units not exceeding 640 acres each in the event of a gas well. Lessee shall execute in writing and record in the conveyance records of the county in which the land herein leased is situated an instrument identifying and describing the pooled acreage. The entire acreage so pooled into a tract or unit shall be treated, for all purposes except the payment of royalty on production from the pooled unit, as if it were leased to Lessee in its entirety. If production is found on the pooled acreage, it shall be treated as if production is had from this lease, whether the well or wells be located on the premises covered by this lease or not. In lieu of the royalties elsewhere herein specified, lessor shall receive on production from a unit so pooled only such portion of the royalty stipulated herein as the amount of his acreage placed in the unit or his royalty interest therein on an acreage basis bears to the total acreage so pooled in the particular unit involved.

7. Should any well drilled on the above described land, or on acreage pooled therewith during the primary term and prior to production being obtained, be a dry hole, or if, after production is obtained, the same should cease from any cause during the primary term, then if a further well is not commenced on said land, or on acreage pooled therewith or reworking operations to restore such production have not been commenced, prior to the next ensuing rental paying date, this lease shall terminate as to both parties, unless the lessee on or before such rental date shall resume the payment of rentals in the same amount and in the same manner as hereinbefore provided. And it is agreed that upon the resumption of the payment of rentals as above provided, that the provisions hereof governing the effect thereof shall continue in force just as though there had been no interruption in the rental payments, and if the lessee shall commence to drill a well within the primary term of this lease on the land above described, or on acreage pooled therewith, the lessee shall have the right to drill such well to completion with reasonable diligence and dispatch, and if oil, gas, casinghead gas, casinghead gasoline, or either of them, be found in paying quantities, this lease shall continue and be in force with like effect; as if such well had been completed within the primary term. Should production from the above described land, or from acreage pooled therewith, cease from any cause after the expiration of the primary term this lease shall not terminate provided lessee succeeds in bringing back such production within six (6) months from such cessation, or within such six (6) month period commences drilling another well on the above described land or on land pooled therewith, and prosecutes the drilling thereof with due diligence to completion, and if such production is restored through any such operations this lease shall continue with the like effect as if there had been no cessation thereof.

8. In case said lessor owns a less interest in the above described land than the entire and undivided fee simple estate therein then the royalties and rentals herein provided for shall be paid the said lessor only in the proportion which his interest bears to the whole and undivided fee. However, such rental shall be increased at the next succeeding rental anniversary after any reversion occurs to cover the interest so acquired.

9. The lessee shall have the right to use, free of cost, gas, oil and water found on said land for its operations thereon, except water from the wells of the lessor. When required by lessor, the lessee shall bury its pipe lines below plow depth and shall pay for damage caused by its operations to growing crops on said land. No well shall be drilled nearer than 200 feet to the house or barn now on said premises without written consent of the lessor. Lessee shall have the right at any time during, or after the expiration of, this lease to remove all machinery, fixtures, houses, buildings and other structures placed on and premises, including the right to draw and remove all casing, but lessee shall be under no obligation to do so.

10. If the estate of either party hereto is assigned and the privilege of assigning in whole or in part is expressly allowed, the covenants hereof shall extend to the heirs, devisees, executors, administrators, successors, and assigns, but no change of ownership in the land or in the rentals or royalties or any sum due under this lease shall be binding on the lessee until it has been furnished with either the original recorded instrument of conveyance or a duly certified copy thereof or a certified copy of the will of any deceased owner and of the probate thereof, or certified copy of the proceedings showing appointment of an administrator for the estate of any deceased owner, whichever is appropriate, together with all original recorded instruments of conveyance or duly certified copies thereof necessary in showing a complete chain of title back to lessor to the full interest claimed, and all advance payments of rentals made hereunder before receipt of said documents shall be binding on any direct or indirect assignee, grantee, devisee, administrator, executor, or heir of lessor.

11. If the leased premises are now or shall hereafter be owned in severally or in separate tracts, the premises nevertheless shall be developed and operated as one lease, and all royalties accruing hereunder shall be treated as an entirety and shall be divided among and paid to such separate owners in the proportion that the acreage owned by each separate owner bears to the entire leased acreage. There shall be no obligation on the part of the lessee to offset wells on separate tracts into which the land covered by this lease may be hereafter divided by sale, devise, descent or otherwise or to furnish separate measuring or receiving tanks. It is hereby agreed that in the event this lease shall be assigned as to a part or as to parts of the above described land and the holder or owner of any such part or parts shall make default in the payment of the proportionate part of the rent due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part of said land upon which the lessee or any assignee hereof shall make due payment of said rentals. If at any time there be as many as four parties entitled to rentals or royalties, lessee may withhold payments thereof unless and until all parties designate, in writing, in a recordable instrument to be filed with the lessee, a common agent to receive all payments due hereunder, and to execute division and transfer of said rentals on behalf of said parties and their respective successors in title.

12. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the lessee, at its option, may pay and discharge in whole or in part any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands and, in event it exercises such option it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying to the discharge of any such mortgage, tax or other lien, any royalty or rentals accruing hereunder.

13. Notwithstanding anything in this lease contained to the contrary, it is expressly agreed that if lessee shall commence operations for drilling at any time while this lease is in force, this lease shall remain in force and its terms shall continue so long as such operations are prosecuted and, if production results therefrom, then as long as production continues.

14. Lessee may at any time surrender or cancel this lease in whole or in part by delivering or mailing such release to the lessor, or by placing same of record in the proper county. In case said lease is surrendered and canceled as to only a portion of the acreage covered thereby, then all payments and liabilities thereafter accruing under the terms of said lease as to the portion canceled shall cease and determine and any rentals thereafter paid may be apportioned on an acreage basis, but as to the portion of the acreage not released the terms and provisions of this lease shall continue and remain in full force and effect for all purposes.

15. All provisions hereof, express or implied, shall be subject to all federal and state laws and the orders, rules, or regulations (and interpretations thereof) of all governmental agencies administering the same, and this lease shall not be in any way terminated wholly or partially nor shall the lessee be liable in damages for failure to comply with any of the express or implied provisions hereof if such failure accords with any such laws, orders, rules or regulations (or interpretations thereof). If lessee should be prevented during the last six months of the primary term hereof from drilling a well hereunder by the order of any constituted authority having jurisdiction thereover, or if lessee should be unable during said period to drill a well hereunder due to said order is suspended and/or said equipment is available, but the lessee shall pay delay rentals herein provided during such extended time.

16. This lease and all its terms, conditions, and stipulations shall extend to and be binding on all successors of said lessor and lessee.

IN WITNESS WHEREOF, we sign the day and year first above written.

Ernest E. Clark

(SEAL)

Nancy J. Clark

(SEAL)

(Ernest E. Clark)

(SEAL)

(Nancy J. Clark)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

(SEAL)

Lessee or his assigns further agrees to restore the surface of the ground as near as possible to the original contours upon abandonment of

STATE OF Kansas } ss. ACKNOWLEDGMENT FOR INDIVIDUAL (Kans. Okla. and Colo.)
COUNTY OF Marshall

Before me, the undersigned, a Notary Public, within and for said County and State, on this 27th
day of September, 1974, personally appeared Ernest E. Clark
and Nancy J. Clark, his wife

to me personally known to be the identical persons who executed the within and foregoing instrument and acknowledged to me
that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.

My commission expires Aug. 13, 1978 Peter J. Coakley
(SEAL) State Notary Public (Peter J. Coakley) Notary Public
Kansas

STATE OF Kansas } ss. ACKNOWLEDGMENT FOR INDIVIDUAL (Kans. Okla. and Colo.)
COUNTY OF Sedgwick

Before me, the undersigned, a Notary Public, within and for said County and State, on this _____
day of _____, 19____, personally appeared _____
and _____

to me personally known to be the identical person who executed the within and foregoing instrument and acknowledged to me
that _____ executed the same as _____ free and voluntary act and deed for the uses and purposes therein set forth.
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.

My commission expires _____
Notary Public

STATE OF _____ } ss. ACKNOWLEDGMENT FOR CORPORATION
COUNTY OF _____

Be it remembered that on this _____ day of _____, 19____, before me, the undersigned, a
Notary Public, duly commissioned, in and for the county and state aforesaid, came _____
_____ president of _____

a corporation of the State of _____, personally known to me to be such officer, and to be
the same person who executed as such officer the foregoing instrument of writing in behalf of said corporation, and he duly ac-
knowledged the execution of the same for himself and for said corporation for the uses and purposes therein set forth.
IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year last above written.

My commission expires _____
Notary Public

NOTE: When signature by mark in Kansas, said mark to be witnessed by at least one person and also acknowledged.
For acknowledgment by mark, use regular Kansas acknowledgment.

STATE OF _____ } ss. ACKNOWLEDGMENT FOR INDIVIDUAL (Kans. Okla. and Colo.)
COUNTY OF _____

Before me, the undersigned, a Notary Public, within and for said County and State, on this _____
day of _____, 19____, personally appeared _____
and _____

to me personally known to be the identical person who executed the within and foregoing instrument and acknowledged to me
that _____ executed the same as _____ free and voluntary act and deed for the uses and purposes therein set forth.
IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.

My commission expires _____
Notary Public

ASSIGNMENT OF OIL AND GAS LEASES

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, BARNETT OIL, INC., hereinafter called Assignor, for and in consideration of One Dollar (\$1.00) the receipt whereof is hereby acknowledged, does hereby sell, assign, transfer and set over unto

BARNETT OIL COMPANY, a Partnership

hereinafter called Assignee, all the right, title and interest in and to the oil and gas leases in Washington County, Kansas, as listed on Exhibit "A" attached hereto, together with the rights incident thereto and the personal property thereof, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignor covenants with the Assignee, its successors or assigns: That the Assignor is the lawful owner of and has good title to the interests herein assigned in and to said leases, estates, rights and property, free and clear from all liens, encumbrances or adverse claims; That said leases are valid and subsisting leases on the lands herein described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed.

EXECUTED this 30th day of April, 1975.



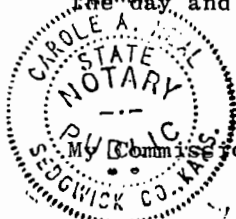
BARNETT OIL, INC.

J. G. Gould
J. G. Gould, President

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss:

Be it remembered that on this 30th day of April, 1975, before me, the undersigned, a Notary Public in and for the county and state aforesaid, came J. G. Gould, President of Barnett Oil, Inc., a corporation of the State of Kansas, personally known to me to be such officer, and to the same person who executed as such officer the foregoing instrument of writing in behalf of said corporation, and he duly acknowledged the execution of the same for himself and for said corporation for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year last above written.



My Commission Expires:

Carole A. Neal
Carole Neal, Notary Public

May 12, 1977

EXHIBIT "A"

Oil and Gas Lease dated September 23, 1974, from Frank W. Weiche and Myrtle M. Weiche, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 283, insofar as said lease covers the Northeast Quarter (NE/4) of Section 1-5S-4E, Washington County, Kansas.

Oil and Gas Lease dated September 25, 1974, from Gail H. Taplin and Jeaneen M. Taplin, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 280, insofar as said lease covers the Southeast Quarter (SE/4) of Section 24-4S-4E, Washington County, Kansas.

Oil and Gas Lease dated September 24, 1974, from Donald A. Bitzer and Gladys Bitzer, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 266, insofar as said lease covers the South Half of the Southeast Quarter (S/2 SE/4) of Section 25; the Northeast Quarter (NE/4), and the North Half of the Southeast Quarter of (N/2 SE/4) of Section 36-4S-4E, Washington County, Kansas.

Oil and Gas Lease dated September 26, 1974, from Paul With and Maxine With, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 284, insofar as said lease covers the Northeast Quarter (NE/4), and the North Half of the Southeast Quarter (N/2 SE/4) of Section 25-4S-4E, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from Hazel L. Richter, formerly known as Hazel L. Johnson, and Herbert A. Richter, her husband, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 276, insofar as said lease covers the Northeast Quarter (NE/4) of Section 8-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated October 29, 1974, from Alberta Hogue and John C. Hogue, her husband, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 269, insofar as said lease covers the West Half of the Northwest Quarter (W/2 NW/4) of Section 9-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated October 4, 1974, from Wilbur J. Link and Lora Lee Link, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 273, insofar as said lease covers the Northeast Quarter (NE/4) of Section 9-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 26, 1974, from Harold Holt and Emma Holt, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 271, insofar as said lease covers the East Half of the Northwest Quarter (E/2 NW/4) of Section 9-4S-5E of the Sixth Principal Meridian; also a tract of land described as commencing at the Northeast Corner of the Southwest Quarter (SW/4) of Section 9-4S-5E of the Sixth Principal Meridian and running thence West 819', thence South 802', thence East 819', thence North 802' to the place of beginning and otherwise described as Lot Two (2) in the Southwest Quarter (SW/4) of Section 9-4-5, East on the Tax Rolls of Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from William Truhlicka and Emma Truhlicka, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 281, insofar as said lease covers all that part of the Southwest Quarter (SW/4) of Section 9-4S-5E of the Sixth Principal Meridian in Washington County, Kansas, lying North of the North line of the right-of-way of the Missouri Pacific Railroad Company, except such portions thereof as are incorporated into the City of Barnes, and also, except lands heretofore conveyed to Hans and Nella Skovgard by deed recorded in Book 117 at page 443.

EXHIBIT "A" (Continued)

Oil and Gas Lease dated September 26, 1974, from Ernest E. Clark and Nancy J. Clark, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 268, insofar as said lease covers the Southeast Quarter (SE/4) of Section 9-4S-5E of the Sixth Principal Meridian, except that part of the Southeast Quarter (SE/4) of said Section which is included in Claypool's addition to the Town of Barnes and described as follows: Beginning at the Southwest Corner of the Southeast Quarter (SE/4) of Section 9-4S-5E, thence North on the West line of said Quarter Section 1150', thence East on a line parallel with the South line of said Quarter Section 644', thence South on a line parallel with the West line of said Quarter Section 1150' to the South line thereof, thence West on the said South line 644' to the place of beginning, containing 143 acres, more or less, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from John D. Shaffer, a single man; and Marie A. Shaffer, a single woman, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 279, insofar as said lease covers the West Half of the Southwest Quarter (W/2 SW/4), subject to the Highway Right-of-way of Section 10-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 25, 1974, from Raymond G. Roepke and Imogene Roepke, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 277, insofar as said lease covers the East Half of the Southwest Quarter (E/2 SW/4) of Section 10-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from Orval R. Perkins and Edna F. Perkins, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 275, insofar as said lease covers the South Half of the Southwest Quarter (S/2 SW/4) of Section 16-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from Geneva I. Barker and Walter Barker, her husband, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 267-A, insofar as said lease covers the Northeast Quarter (NE/4) of Section 17-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 24, 1974, from Lloyd E. Wolverton and Mildred A. Wolverton, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in "J", page 286, insofar as said lease covers the West Half (W/2) of Section 19; the North Half of the Northeast Quarter (N/2 NE/4) of Section 31-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 26, 1974, from Paul With and Maxine With, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 285, insofar as said lease covers the Southeast Quarter (SE/4) of Section 20; and the West Half of the Northwest Quarter (W/2 NW/4) of Section 28-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated October 4, 1974, from Richard E. Rosebaugh and Alma A. Rosebaugh, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 278, insofar as said lease covers the Northeast Quarter of the Northwest Quarter (NE/4 NW/4) and the Northwest Quarter of the Northeast Quarter (NW/4 NE/4) of Section 21-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated October 29, 1974, from John C. Hogue and Alberta H. Hogue, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 270, insofar as said lease covers the Southeast Quarter of the Northwest Quarter (SE/4 NW/4), and the Southwest Quarter of the Northeast Quarter (SW/4 NE/4) of Section 21-4S-5E, Washington County, Kansas.

EXHIBIT "A" (Continued)

Oil and Gas Lease dated September 26, 1974, from Dean E. Perkins and Idana K. Perkins, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 274, insofar as said lease covers the West Half of the Southeast Quarter (W/2 SE/4); and the Northeast Quarter (NE/4) of Section 16-4S-5E of the Sixth Principal Meridian, except for the following described tracts of land:

Commencing at the Northwest Corner of the Northeast Quarter (NW/c NE/4) of said Section, thence running South 2878-1/2', thence East 555', thence North 1270', to the South line of Second Street in Padelford's Second Addition to Barnes, Kansas, thence East 2', thence North along the East line of Padelford's Second Addition to Barnes, to the South line of the right-of-way of the Waterville and Washington Railway Company, thence in a Southeasterly direction along the South line of said right-of-way to the East line of said Section, thence North to the Northeast corner of said Section, thence West to place of beginning, Washington County, Kansas.

AND

A tract of land in the Northeast Quarter (NE/4) of Section 16-4S-5E of the Sixth Principal Meridian described as follows: Beginning at the intersection of the Northeasterly right-of-way line of Highway K-9 and the Westerly right-of-way line of Highway K-15 East; thence Northeasterly along said Westerly right-of-way line, 122.3'; thence Northerly along said Westerly right-of-way line to the South right-of-way line of the Missouri Pacific Railroad Company, thence Westerly along said Railroad right-of-way line, 177.6', thence Southerly parallel to said Highway right-of-way line to a point on the Northeasterly right-of-way line of Highway K-9, 125.3' Northwesterly from the point of beginning, thence Southeasterly along right-of-way line to the place of beginning, Washington County, Kansas.

AND

Commencing at the Northeast Corner of Lot 10, in Block 2, in Padelford's Addition to Barnes, and running thence in a Southeasterly direction in line with the North boundary of said Block 2, 150', thence in a Southwesterly direction 50', thence in a Northwesterly direction 150' to the Southeast corner of said Lot 10 in Block 2, in Padelford's Addition to Barnes, Kansas, thence in a Northeasterly direction 50' to place of beginning, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from Frank W. Jorgenson and Inez E. Jorgenson, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 272, insofar as said lease covers the Northeast Quarter (NE/4) of Section 29-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 24, 1974, from John D. Brady, a single man; James W. Brady, Jr. and Alice Brady, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 265, insofar as said lease covers the South Half of the Northwest Quarter (S/2 NW/4) of Section 29-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 24, 1974, from Brice A. Hovorka and Ruth Hovorka, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 267, insofar as said lease covers the South Half of the Southwest Quarter (S/2 SW/4) of Section 30; and the North Half of the Northwest Quarter (N/2 NW/4) of Section 31-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 24, 1974, from Jay K. VanKirk and Jeanette VanKirk, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 282, insofar as said lease covers the North Half of the Northwest Quarter (N/2 NW/4), the Southeast Quarter of the Northwest Quarter (SE/4 NW/4), and the East Half of the Southwest Quarter of the Northwest Quarter (E/2 SW/4 NW/4) of Section 32-4S-5E, Washington County, Kansas.

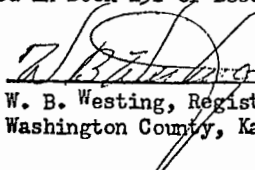
EXHIBIT "A" (Continued)

Oil and Gas Lease dated September 24, 1974, from Lloyd E. Wolverton and Mildred A. Wolverton, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 287, insofar as said lease covers the South Half of the Northwest Quarter (S/2 NW/4); and the North Half of the Southwest Quarter (N/2 SW/4) except a tract beginning at the Southeast Corner of the North Half of the Southwest Quarter (SE/C N/2 SW/4) of Section 31, West 9.17 rods, thence North 34 rods, thence East 9.17 rods, thence South 34 rods to the place of beginning of Section 31-4S-5E, Washington County, Kansas.

STATE OF KANSAS }
Washington County } SS:

This instrumen was filed for record on the 5th day of May, A.D., 1975
at 10:30 o'clock A.M., and duly recorded in Book 152 of Deeds on
Pages 97 - 101, Incl




W. B. Westing, Register of Deeds
Washington County, Kansas

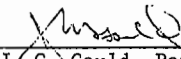
RELEASE OF OIL AND GAS LEASES

KNOW ALL MEN BY THESE PRESENTS:

THAT, The Undersigned, BARNETT OIL COMPANY, A Partnership, does hereby release all of its rights under the OIL AND GAS LEASES described in Exhibit 'A' attached hereto and made a part hereof by reference as though therein fully set forth, and that they have removed their personal property from said premises, and does hereby surrender possession of the same unto the said lessors, as set forth in Exhibit 'A', their heirs, assigns and legal representatives; the purpose being to release unto the said lessors all further rights under said leases, and surrender said premises and all rights therein to them, their heirs, assigns and legal representatives.

IN WITNESS WHEREOF, The Undersigned, does hereby affix his hand and seal this 13th Day of October, 1976.

BARNETT OIL COMPANY


J. G. Gould, Partner

STATE OF KANSAS
COUNTY OF SEDGWICK

Before me, the undersigned, a Notary Public, within and for said County and State, on the 13th day of October, 1976, came J. G. Gould a Partner of Barnett Oil Company, personally known to me to be such partner who executed the foregoing instrument of writing in behalf of said company, and he duly acknowledged the execution of the same for himself and for said company for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal on the day and year last written above.

My appointment expires:




Carol Alexander, Notary Public

EXHIBIT "A"

Oil and Gas Lease dated September 23, 1974, from Frank W. Weiche and Myrtle M. Weiche, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 283, insofar as said lease covers the Northeast Quarter (NE/4) of Section 1-5S-4E, Washington County, Kansas.

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Oil and Gas Lease dated September 27, 1974, from John D. Shaffer, a single man; and Marie A. Shaffer, a single woman, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 279, insofar as said lease covers the West Half of the Southwest Quarter (W/2 SW/4), subject to the Highway Right-of-way of Section 10-4S-5E, Washington County, Kansas.

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Oil and Gas Lease dated September 27, 1974, from Orval R. Perkins and Edna F. Perkins, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 275, insofar as said lease covers the South Half of the Southwest Quarter (S/2 SW/4) of Section 16-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from Ceneva I. Barker and Walter Barker, her husband, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 267-A, insofar as said lease covers the Northeast Quarter (NE/4) of Section 17-4S-5E, Washington County, Kansas.

Oil and Gas Lease dated September 24, 1974, from Lloyd E. Wolverton and Mildred A. Wolverton, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in "J", page 286, insofar as said lease covers the West Half (W/2) of Section 19; the North Half of the Northeast Quarter (N/2 NE/4) of Section 31-4S-5E, Washington County, Kansas.

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Oil and Gas Lease dated October 4, 1974, from Richard E. Rosebaugh and Alma A. Rosebaugh, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 278, insofar as said lease covers the Northeast Quarter of the Northwest Quarter (NE/4 NW/4) and the Northwest Quarter of the Northeast Quarter (NW/4 NE/4) of Section 21-4S-5E, Washington County, Kansas.

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EXHIBIT "A" (Continued)

Oil and Gas Lease dated September 26, 1974, from Dean E. Perkins and Idana K. Perkins, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 274, insofar as said lease covers the West Half of the Southeast Quarter (W/2 SE/4); and the Northeast Quarter (NE/4) of Section 16-4S-5E of the Sixth Principal Meridian, except for the following described tracts of land:

Commencing at the Northwest Corner of the Northeast Quarter (NW/c NE/4) of said Section, thence running South 2878-1/2', thence East 555', thence North 1270', to the South line of Second Street in Padelford's Second Addition to Barnes, Kansas, thence East 2', thence North along the East line of Padelford's Second Addition to Barnes, to the South line of the right-of-way of the Waterville and Washington Railway Company, thence in a Southeasterly direction along the South line of said right-of-way to the East line of said Section, thence North to the Northeast corner of said Section, thence West to place of beginning, Washington County, Kansas.

AND

A tract of land in the Northeast Quarter (NE/4) of Section 16-4S-5E of the Sixth Principal Meridian described as follows: Beginning at the intersection of the Northeasterly right-of-way line of Highway K-9 and the Westerly right-of-way line of Highway K-15 East; thence Northeasterly along said Westerly right-of-way line, 122.3'; thence Northerly along said Westerly right-of-way line to the South right-of-way line of the Missouri Pacific Railroad Company, thence Westerly along said Railroad right-of-way line, 177.6', thence Southerly parallel to said Highway right-of-way line to a point on the Northeasterly right-of-way line of Highway K-9, 125.3' Northwesterly from the point of beginning, thence Southeasterly along right-of-way line to the place of beginning, Washington County, Kansas.

AND

Commencing at the Northeast Corner of Lot 10, in Block 2, in Padelford's Addition to Barnes, and running thence in a Southeasterly direction in line with the North boundary of said Block 2, 150', thence in a Southwesterly direction 50', thence in a Northwesterly direction 150' to the Southeast corner of said Lot 10 in Block 2, in Padelford's Addition to Barnes, Kansas, thence in a Northeasterly direction 50' to place of beginning, Washington County, Kansas.

Oil and Gas Lease dated September 27, 1974, from Frank W. Jorgenson and Inez E. Jorgenson, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 272, insofar as said lease covers the Northeast Quarter (NE/4) of Section 29-4S-5E, Washington County, Kansas.

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Oil and Gas Lease dated September 24, 1974, from Jay K. VanKirk and Jeanette VanKirk, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 282, insofar as said lease covers the North Half of the Northwest Quarter (N/2 NW/4), the Southeast Quarter of the Northwest Quarter (SE/4 NW/4), and the East Half of the Southwest Quarter of the Northwest Quarter (E/2 SW/4 NW/4) of Section 32-4S-5E, Washington County, Kansas.

EXHIBIT "A" (Continued)

Oil and Gas Lease dated September 24, 1974, from Lloyd E. Wolverton and Mildred A. Wolverton, his wife, lessors, to Barnett Oil, Inc., lessee, recorded in Book "J", page 287, insofar as said lease covers the South Half of the Northwest Quarter (S/2 NW/4); and the North Half of the Southwest Quarter (N/2 SW/4) except a tract beginning at the Southeast Corner of the North Half of the Southwest Quarter (SE/C N/2 SW/4) of Section 31, West 9.17 rods, thence North 3/4 rods, thence East 9.17 rods, thence South 34 rods to the place of beginning of Section 31-4S-5E, Washington County, Kansas.

State of Kansas, Washington County, SS:

This instrument was filed for record on the 18th day of October, 1976 at 10:30 o'clock A. M., and duly recorded in Book 154 of Deeds on Pages 327 to 331, incl. 2



D. B. Weston Jr.
Register of Deeds.

PHOTOGRAPHED

Entered in Transfer Record in my office this
19th day of July, A. D., 1988.

County Clerk.

Ernest E. Clark, a single man,
CONVEY S AND WARRANT S TO

Charles L. Hagedorn and Pauline K. Hagedorn, husband and wife,
as JOINT TENANTS and not as tenants in common, with full rights of survivorship, the whole
estate to vest in the survivor in the event of the death of either, all the following described REAL
ESTATE in the County of WASHINGTON
and the State of Kansas, to-wit:

The Southeast Quarter (SE 1/4) of Section Nine (9), in Township Four (4) South, Range Five (5) East of the 6th P.M., except that part of the Southeast Quarter (SE 1/4) of Section Nine (9), Township Four (4) South, Range Five (5) East, which is included in Claypool's Addition to the Town of Barnes and described as follows: Beginning at the Southwest Corner of the Southeast Quarter (SE 1/4) of Section Nine (9), Township 4 South, Range 5 East, thence north on the West line of said Quarter Section, One thousand one hundred fifty (1,150) feet, thence east on a line parallel with the south line of said Quarter Section, Six hundred Forty-four (644) feet, thence South on a line parallel with the west line of said Quarter Section, 1,150 feet to the south line thereof, thence west on the said south line 644 feet to the place of beginning, containing 143 acres, more or less, subject to roads, highways, public utilities and easements, visible or of record, in Washington county, Kansas, and also excepting a tract of land described as follows: Beginning at a point of the south line of the Southeast Quarter (SE 1/4) of section nine (9), Township Four (4) South, Range Five (5) East of the 6th P.M. and being 644 feet east of the southwest corner of said Southeast Quarter; thence east along said south line of said Southeast Quarter, 210 feet; thence North parallel to the West line of said Southeast Quarter, 200 feet; thence west parallel to the South line of said Southeast Quarter, 110 feet; thence North parallel to the West line of said Southeast Quarter, 200 feet; thence West parallel to the South line of said Southeast Quarter, 100 feet; thence South parallel to the West line of said Southeast Quarter, 400 feet to the point of beginning.

~~NOT TO BE RECORDED~~

For the sum of one dollar and other valuable consideration.

Dated November 9, 1977

STATE OF KANSAS, WASHINGTON COUNTY, ss

BE IT REMEMBERED, That on this 9th day of
November
A. D. 1977, before me, the undersigned, a

in and for the County and State aforesaid, came

Ernest E. Clark, a single man,

who is personally known to me to be the same person who
executed the within instrument of writing and such person duly
acknowledged the execution of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed
my seal, the day and year last above written.

DENNIS A. DIEZ
STATE NOTARY PUBLIC
WASHINGTON CO., KANSAS
MY COMM. EXP. MAY 30, 1979

Term expires

May 30, 1979

RECEIVED
NUMBERED
GRANTOR
GRANTEE
TRANS. CO.

PHOTOGRAPHED

STATE OF Kansas

Washington County, ss.

This instrument was filed for record on the
19th day of July, A. D., 1988,

at 8:00 o'clock A.M., and duly recorded
in book 190 of Deeds

at page 488

Marilyn L. Halle
Register of Deeds.

Deputy.

Fees, \$ 5.00

THIS INDENTURE, Made this 14th day of December, 1983, between

Charles L. Hagedorn and Pauline K. Hagedorn, Husband and Wife,

of Washington County, in the State of Kansas, of the first part, and

Charles D. Jenkins and Jana L. Jenkins, Husband and Wife

of Washington County, in the State of Kansas, of the second part,

WITNESSETH, That said parties of the first part, in consideration of the sum of

One & no/100-----and-----DOLLARS
and other considerations 100
the receipt of which is hereby acknowledged, do by these presents, REMISE, RELEASE AND QUIT-

CLAIM, unto said parties of the second part, their heirs and assigns, all the following-described
REAL ESTATE, situated in the County of Washington

and State of Kansas, to wit:

A tract of land described as follows:

Beginning at a point 1,180 feet North of the Southwest corner of the
Southeast Quarter of Section 9, Township 4 South, Range 5 East of the
6th P. M.; THENCE North 150 feet; THENCE East 100 feet; THENCE South
150 feet; THENCE West 100 feet to the place of beginning.....

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments
and appurtenances thereunto belonging, or in any wise appertaining forever.

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hands
the day and year first above written.

Executed and delivered in presence of

Charles L. Hagedorn
Pauline K. Hagedorn

DEED — QUIT CLAIM

FROM
Charles D. Jenkins
a single person
TO
Jana L. Jenkins

RECEIVED ✓
NUMBERED ✓
GRANTOR ✓
GRANTEE ✓
TRANS. CD ✓



THIS INDENTURE, Made this 7th day of March, A. D. 1993,
between Charles D. Jenkins, a single person

Entered in Transfer Record in
my office, this 6th day of
October, A. D. 1998



Lauretta L. Jenkins
County Clerk

KANSAS,
Washington County, ss.

This instrument was filed for record on the
6th day of October, A. D.
1998, at 4:00 o'clock P. M., and
duly recorded in Book 215 of Deeds,
at page 79

Maureen H. Hesse
Register of Deeds

By _____ Deputy

FEE

Register of Deeds, for recording, \$ 6.00



PHOTOGRAPHED

A tract out of the Southeast Quarter (SE/4) of Section Nine (9),
Township Four (4) South, Range Five (5) East of the 6th P.M.,
described as follows:

Beginning at a point One Thousand One Hundred Eighty (1,180) feet
North of the southwest corner of the Southeast Quarter (SE/4), of
Section Nine (9), Township Four (4) South, Range Five (5) East of
the 6th P.M., thence North One Hundred Fifty (150) feet; thence
East One Hundred (100) feet; thence South One Hundred Fifty (150)
feet; thence West One Hundred (100) feet to the place of beginning.

No Real Estate Validation Questionnaire needed, pursuant to KSA-1437e
(exp. #8)

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining,
forever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set his hand, the day and year first above written.

Charles D. Jenkins
Charles D. Jenkins

Executed and Delivered In the Presence of

STATE OF KANSAS

Marshall
WASHINGTON
7th

COUNTY, ss.

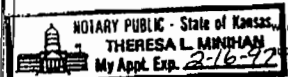
BE IT REMEMBERED, That on this 7th day of March,

A. D. 1993 before me, the

undersigned, a Notary Public

In and for the County and State aforesaid, came

Charles D. Jenkins, a single person,



who is personally known to me to be the same person who executed the within instrument of writing, and
duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal, the day and year last above written.

(Term expires Feb. 16, 1997)

Theresa L. Minahan

Notary Public

BOOK 215 PAGE 79

WARRANTY DEED

Charles L. Hagedorn and Pauline K. Hagedorn,
husband and wife,

CONVEY AND WARRANT TO:

Willis J. Truhlicka, as Trustee of the Willis J.
Truhlicka Trust Number 1, dated April 23, 1982

all the following described real estate in the County of Marshall
and State of Kansas, to-wit:

The Southeast Quarter of Section 9, Township 4 South,
Range 5 East of the 6th P.M., Washington County, Kansas,

EXCEPT that part of the Southeast Quarter of Section 9,
Township 4 South, Range 5 East, which is included in
Claypool's Addition to the Town of Barnes and described
as follows: Beginning at the Southwest corner of the
Southeast Quarter of Section 9, thence North on the West
line of said Quarter Section, 1150 feet; thence East on
a line parallel with the South line of said Quarter
Section 644 feet; thence South on a line parallel with
the West line of said Quarter Section, 1150 feet to the
South line thereof, thence West on said South line 644
feet to the place of beginning, except roads and highways
and

EXCEPT a tract of land described as follows: Beginning at
a point on the South line of the Southeast Quarter of
Section 9, Township 4 South, Range 5 East and being 644
feet East of the Southwest corner of said Southeast
Quarter; thence East along said South line of said
Southeast Quarter, 210 feet; thence North parallel to the
West line of said Southeast Quarter 200 feet; thence West
parallel to the South line of said Southeast Quarter 110
feet; thence North parallel to the West line of said
Southeast Quarter 200 feet; thence West parallel to the
South line of said Southeast Quarter 100 feet; thence
South parallel to the West line of said Southeast Quarter
400 feet to the point of beginning, and

EXCEPT a tract described as follows: Beginning at a point
1170 feet North of the Southwest corner of the Southeast
Quarter of Section 9, Township 4 South, Range 5 East of
the 6th P.M., thence North 150 feet; thence East 100
feet; thence South 150 feet; thence West 100 feet to the
place of beginning;

15. 30. 30 3
1.0 0.2

26

EXCEPT a tract described as follows: Beginning 1150 feet North of the Southwest corner of the Southeast Quarter of Section 9, Township 4 South, Range 5 East of the 6th P.M., thence East 578 feet, thence North 200 feet on a line parallel with the West line of said Quarter Section, thence West 578 feet on a line parallel with the North line of the said Quarter Section of land, thence South 200 feet to the place of beginning;

for the sum of One Dollar and Other Valuable Consideration.

EXCEPT AND SUBJECT TO: Easements, Restrictions and Rights-of-way both visible and of record, and less land used for highway purposes.

Dated this 29th day of July, 1998.

Charles L. Hagedorn
Charles L. Hagedorn

Pauline K. Hagedorn
Pauline K. Hagedorn

STATE OF KANSAS, Washington COUNTY, SS:

The foregoing instrument was acknowledged before me this 29th day of July, 1998, by Charles L. Hagedorn and Pauline K. Hagedorn, husband and wife.

(Seal)  NOTARY PUBLIC - State of Kansas
LAURA OENTRICH
My Appt. Exp. 8-28-2000

Laura Oentrich
Notary Public

My Appointment Expires: 8-28-2000.

PHOTOGRAPHED

State of Kansas

SS

Washington County

This instrument was filed for record on the 7th day of August 1998 at 1:00 pm and duly recorded in Book 214 of Deeds at Page 266 & 267.

Marilee D. Hall
Register of Deeds
Washington Co., KS. \$8.00

Entered in Transfer Record
in my office this 7th day
of August 1998
Louella Lynn
County Clerk
Washington County, Kansas



RECEIVED ✓
NUM'LED ✓
GRANTOR ✓
GRANTEE ✓
TRANS. CD ✓

BOOK 214 PAGE 267

DEED — QUIT CLAIM

FROM
Jana L. Jenkins, a single person
TO
Charles L. Hagedorn & Pauline K. Hagedorn, Husband & Wife

Entered in Transfer Record in my office, this 9th day of October A.D. 2002

Kathy Fute
County Clerk

STATE OF KANSAS, Washington County, ss.

This instrument was filed for record on the 9th day of October A.D. 2002 at 3:30 o'clock P. M., and duly recorded in Book 224 of Deeds, at page 364

Marjorie K. Koele
Register of Deeds
By _____ Deputy

FEE

Register of Deeds, for recording, \$ 8.00



THIS INDENTURE, Made this 4th day of October A.D. 2002 between Jana L. Jenkins, A Single Person



Washington County, in the State of Kansas

Charles L. Hagedorn and Pauline K. Hagedorn, Husband and Wife

of Washington County, in the State of Kansas of the second part:

WITNESSETH, That said party of the first part, in consideration of the sum of One Dollar (\$1.00) and other valuable consideration the receipt of which is hereby acknowledged, does by these presents, REMISE, RELEASE AND QUIT-CLAIM, unto said parties of the second part, their heirs and assigns all the following-described REAL ESTATE situated in the County of Washington and State of Kansas, to-wit:

No Real Estate Validation Questionnaire needed, pursuant to KSA-1437e (exp. #4)

RECEIVED
NUMBERED
GRANTOR
GRANTEE
TRANS. CD

A tract out of the Southeast Quarter (SE $\frac{1}{4}$) of Section Nine (9), Township Four (4) South, Range Five (5) East of the 6th P.M., described as follows:

PHOTOGRAPHED

Beginning at a point One Thousand One Hundred Eighty (1,180) feet North of the Southwest corner of the Southeast Quarter (SE $\frac{1}{4}$) of Section Nine (9), Township Four (4) South, Range Five (5) East of the 6th P.M., thence North One Hundred Fifty (150) feet; thence East One Hundred (100) feet; thence South One Hundred Fifty (150) feet; thence West One Hundred (100) feet to the place of beginning.

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, forever.

IN WITNESS WHEREOF, The said part y of the first part has hereunto set Her hand the day and year first above written.

Executed and Delivered in the Presence of

Jana L. Jenkins
Jana L. Jenkins

STATE OF Kansas

Washington

COUNTY, ss.

BE IT REMEMBERED, That on this

4th

day of

October

2002

A.D. 2002, before me, the

undersigned, a

Notary Public

in and for the County and State aforesaid, came

Jana L. Jenkins, A Single Person

NOTARY PUBLIC - State of Kansas
DEBRA L. KRUSE
My Appt. Exp. _____
(SEAL)
(Term expires 1-21-2004)

who is personally known to me to be the same person who executed the within instrument of writing, and such person duly acknowledged the execution of the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal, the day and year last above written.

Debra L. Kruse
Debra L. Kruse
Notary Public

BOOK 224 PAGE 364

Appendix B:

**Complete Historical Analytical Results and
Well Construction Summary
for Barnes, Kansas**

TABLE B.1 Complete historical analytical data for Barnes, Kansas.

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						Nitrates (ppm)
					Field Laboratory Analysis		Off-Site Laboratory Analysis				
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
Historical public well sampling reported by PRC (1996) and KDHE (1997a) and CCC/KDHE private well sampling program											
4/8/86	PWS2	GW	155 (TD) ^c	NM ^d	NA ^e	NA	2.1	ND ^f	NR ^g	NR	—
4/22/86	PWS2	GW	155 (TD)	NM	NA	NA	1.3	ND	NR	NR	—
7/7/87	PWS2	GW	155 (TD)	NM	NA	NA	2.5	ND	NR	NR	10.6
1/7/88	PWS2	GW	155 (TD)	NM	NA	NA	ND	NR	NR	NR	10
9/2/88	PWS2	GW	155 (TD)	NM	NA	NA	ND	ND	NR	NR	—
9/22/88	PWS2	GW	155 (TD)	NM	NA	NA	ND	NR	NR	NR	9.4
1/30/89	PWS2	GW	155 (TD)	NM	NA	NA	ND	8.7	NR	NR ^h	9.06
7/13/89	PWS2	GW	155 (TD)	NM	NA	NA	ND	NR	NR	NR	8.15
8/12/91	PWS2	GW	155 (TD)	NM	NA	NA	ND	ND	NR	NR ^h	—
4/11/95	PWS2	GW	155 (TD)	NM	NA	NA	0.5	ND	NR	NR	—
7/25/95	PWS2	GW	155 (TD)	NM	NA	NA	1.1	ND	NR	NR	—
4/8/86	PWS3	GW	160 (TD)	NM	NA	NA	0.5	ND	NR	NR	—
4/22/86	PWS3	GW	160 (TD)	NM	NA	NA	0.2	ND	NR	NR	—
7/7/87	PWS3	GW	160 (TD)	NM	NA	NA	2.1	ND	NR	NR	10.6
1/7/88	PWS3	GW	160 (TD)	NM	NA	NA	ND	NR	NR	NR	8.15
9/2/88	PWS3	GW	160 (TD)	NM	NA	NA	ND	ND	NR	NR	—
9/22/88	PWS3	GW	160 (TD)	NM	NA	NA	ND	NR	NR	NR	9.4
1/30/89	PWS3	GW	160 (TD)	NM	NA	NA	ND	0.8	NR	NR	8.11
7/13/89	PWS3	GW	160 (TD)	NM	NA	NA	ND	1.5	NR	NR	—
8/12/91	PWS3	GW	160 (TD)	NM	NA	NA	ND	ND	NR	NR	—
4/11/95	PWS3	GW	160 (TD)	NM	NA	NA	ND	ND	NR	NR	—
7/25/95	PWS3	GW	160 (TD)	NM	NA	NA	ND	ND	NR	NR	—
Sampling for the Phase I comprehensive investigation (PRC 1996)											
4/30/96	Probe 1	SG	4–6	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 1	SG	10–12	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 1	SG	16–18	—	9.7	< 2	NA	NA	NA	NA	NA

TABLE B.1 (Cont.)

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						Nitrates (ppm)
					Field Laboratory Analysis		Off-Site Laboratory Analysis				
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
Sampling for the Phase I comprehensive investigation (PRC 1996) (cont.)											
4/30/96	Probe 2	SG	4–6	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 2	SG	7–9	—	8.4	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 2	SG	12–14	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 3	SG	6–9	—	50	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 4	SG	4–6	—	66	15	19	6.1	< 3.5	12.3	NA
4/30/96	Probe 5	SG	4–6	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 6	SG	4–6	—	2.6	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 7	SG	6–8	—	10	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 8	SG	22–24	—	8.5	3.5	NA	NA	NA	NA	NA
4/30/96	Probe 9	SG	16–18	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 10	SG	16–18	—	47	2.6	28	< 2.5	< 3.5	2.9	NA
5/1/96	Probe 11	SG	11–13	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 12	SG	7–9	—	< 1	< 2	NA	NA	NA	NA	NA
4/30/96	Probe 13	SG	4–6	—	< 1	< 2	NA	NA	NA	NA	NA
5/1/96	Probe 14	SG	7–9	—	< 1	< 2	NA	NA	NA	NA	NA
5/1/96	Probe 15	SG	4–6	—	< 1	< 2	NA	NA	NA	NA	NA
5/1/96	Probe 16	SG	16–18	—	2.1	< 2	NA	NA	NA	NA	NA
5/1/96	Probe 17	SG	16–18	—	20	< 2	NA	NA	NA	NA	NA
5/1/96	Probe 4	S	4–6	—	< 1	< 0.2	< 30	< 13	< 64	NA	NA
5/1/96	Probe 3	S	4–6	—	< 1	< 0.2	< 30	< 13	< 64	NA	NA
5/1/96	Probe 3 Dup	S	4–6	—	< 1	< 0.2	< 30	< 13	< 64	NA	NA
5/1/96	Probe 10	S	17–19	—	< 1	< 0.2	< 30	< 13	< 64	NA	NA
4/29/96	Cooney	GW	Unknown	NM	NA	NA	< 1.2	< 0.5	< 2.5	NA	NA
4/29/96	Oentrich	GW	150	NM	NA	NA	< 1.2	< 0.5	< 2.5	NA	NA
4/29/96	Perkins	GW	60	NM	NA	NA	< 1.2	< 0.5	< 2.5	NA	NA
5/1/96	Rothlisberger	GW	100	NM	NA	NA	< 1.2	< 0.5	< 2.5	NA	NA
5/1/96	PWS3	GW	160 (TD)	NM	NA	NA	< 1.2	< 0.5	< 2.5	NA	NA
5/1/96	PWS2	GW	155 (TD)	NM	NA	NA	< 1.2	< 0.5	< 2.5	NA	NA

TABLE B.1 (Cont.)

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						Nitrates (ppm)
					Field Laboratory Analysis		Off-Site Laboratory Analysis				
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
Public water supply sampling reported by the KDHE (1997b)											
8/13/96	PWS2	GW	155 (TD)	NM	NA	NA	1.3	NR	NR	NR	NA
8/13/96	PWS3	GW	160 (TD)	NM	NA	NA	0.5	NR	NR	NR	NA
Private well sampling reported by the KDHE (1998)											
8/28/97	PWS2	GW	155 (TD)	NM	NA	NA	0.9	< 0.5	< 0.5	< 0.5	NA
8/28/97	PWS3	GW	160 (TD)	NM	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5 ^h	NA
6/23/98	Finch ^k	DW	Unknown	NM	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 20
Sampling reported in the 1999 Comprehensive Investigation Report by BE&K Terranext											
11/30/98	MW-1D	S	21-23	—	NA	NA	< 6.25	< 6.25	< 6.25	< 6.25 ⁱ	NA
12/1/98	MW-2D	S	21-23	—	NA	NA	< 6.4	< 6.4	< 6.4	< 6.4	NA
12/1/98	MW-2D Dup	S	21-23	—	NA	NA	< 5.55	< 5.55	< 5.55	< 5.55	NA
12/1/98	MW-3D	S	15-17	—	NA	NA	< 6.6	< 6.6	< 6.6	< 6.6	NA
12/1/98	MW-4D	S	6-8	—	NA	NA	< 6.25	< 6.25	< 6.25	< 6.25	NA
12/28/98	MW-1S	GW	13.3-23.3	Dry	NS ^j	NS	NS	NS	NS	NS	NS
12/28/98	MW-1D	GW	139.85-159.4	107.74	NA	NA	< 1	< 1	< 1	< 1	NA
12/28/98	MW-2D	GW	133.26-152.93	100.61	NA	NA	< 1	< 1	< 1	< 1	NA
12/28/98	MW-3D	GW	133.02-152.73	97.69	NA	NA	< 1	< 1	< 1	< 1	NA
12/28/98	MW-4D	GW	98.38-118.22	79.93	NA	NA	4	< 1	< 1	< 1	NA
1/29/99	MW-1S	GW	13.3-23.3	Dry	NS	NS	NS	NS	NS	NS	NS
1/29/99	MW-1D	GW	139.85-159.4	109.5	NA	NA	< 1	< 1	< 1	< 1	NA
1/29/99	MW-2D	GW	133.26-152.93	107.27	NA	NA	< 1	< 1	< 1	< 1	NA
1/29/99	MW-3D	GW	133.02-152.73	103.71	NA	NA	< 1	< 1	< 1	< 1	NA
1/29/99	MW-4D	GW	98.38-118.22	84.52	NA	NA	3.9	< 1	< 1	< 1	NA
1/29/99	MW-4D Dup	GW	98.38-118.22	84.52	NA	NA	3.7	< 1	< 1	< 1	NA
1/29/99	Oentrich	GW	150	NM	NA	NA	< 1	< 1	< 1	< 1	NA
1/29/99	PWS2	GW	155 (TD)	NM	NA	NA	< 1	< 1	< 1	< 1	NA
1/29/99	PWS3	GW	160 (TD)	NM	NA	NA	< 1	< 1	< 1	< 1	NA

TABLE B.1 (Cont.)

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						Nitrates (ppm)
					Field Laboratory Analysis		Off-Site Laboratory Analysis				
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
Sampling of wells reported by the KDHE (2001, 2007a)											
5/4/99	MW-1S	GW	13.3-23.3	Dry	NS	NS	NS	NS	NS	NS	NS
7/12/99	PWS2	GW	155 (TD)	NM	NA	NA	1.2	< 0.5	< 0.5	< 0.5	NA
7/12/99	PWS3	GW	160 (TD)	NM	NA	NA	1.7	0.6	< 0.5	< 0.5	NA
Sampling reported by BE&K (2000)											
3/22/00	MW-1S	GW	13.3-23.3	Dry	NS	NS	NS	NS	NS	NS	NS
3/22/00	MW-1D	GW	139.85-159.4	119.09	NA	NA	< 1	< 1	< 1	NA ^h	NA
3/22/00	MW-2D	GW	133.26-152.93	116.8	NA	NA	< 1	< 1	< 1	NA	NA
93/22/00	MW-3D	GW	133.02-152.73	113.69	NA	NA	< 1	< 1	< 1	NA	NA
3/22/00	MW-4D	GW	98.38-118.22	95.21	NA	NA	5.1	< 1	< 1	NA	NA
3/22/00	MW-4D Dup	GW	98.38-118.22	95.21	NA	NA	4.9	< 1	< 1	NA	NA
3/22/00	PWS2	GW	155 (TD)	NM	NA	NA	< 1	< 1	< 1	NA	NA
3/22/00	PWS3	GW	160 (TD)	NM	NA	NA	< 1	1.9	< 1	NA ^h	NA
Sampling reported for Westside Service underground storage tank site by AEI (2000)											
10/17/00	MW-1	GW	10-45	15.8	NA	NA	NA	NA	NA	12800	NS
10/17/00	MW-2	GW	10-45	16.19	NA	NA	NA	NA	NA	396	NS
10/17/00	MW-3	GW	10-40	19.94	NS	NS	NS	NS	NS	NS	NS
10/17/00	MW-4	GW	10-45	14.02 ⁱ	NS	NS	NS	NS	NS	NS	NS
10/17/00	MW-5	GW	10-50	44.22	NA	NA	NA	NA	NA	ND	NS
10/17/00	MW-7	GW	24.5-64.5	62.67	NA	NA	NA	NA	NA	ND	NS
10/17/00	MW-8	GW	23.5-63.5	53.4	NA	NA	NA	NA	NA	ND	NS
10/17/00	MW-9	GW	40.80	63.12	NA	NA	NA	NA	NA	ND	NS
Sampling reported by the KDHE (2007a)											
7/11/00	PWS2	GW	155 (TD)	NM	NA	NA	0.5	NA	< 0.5	< 0.5	NA
7/11/00	PWS3	GW	160 (TD)	NM	NA	NA	< 0.5	NA	0.5	< 0.5	NA
7/9/01	PWS2	GW	155 (TD)	NM	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA
7/9/01	PWS3	GW	160 (TD)	NM	NA	NA	< 0.5	NA	< 0.5	< 0.5	NA

TABLE B.1 (Cont.)

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						Nitrates (ppm)
					Field Laboratory Analysis		Off-Site Laboratory Analysis				
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
Sampling reported by the KDHE (2002)											
3/8/02	MW-4D	GW	98.38-118.22	NR	NA	NA	7.3 ^m	< 1	< 0.9	< 0.4	NA
Sampling of public water supply wells, reported by the KDHE (2006, 2007a)											
7/15/02	PWS2	GW	155 (TD)	NR	NA	NA	< 0.5	NA	< 0.5	< 0.5	NR
7/15/02	PWS3	GW	160 (TD)	NR	NA	NA	< 0.5	NA	< 0.5	<0.5	NR
7/11/05	PWS2	GW	155 (TD)	NR	NA	NA	< 0.5	NA	< 0.5	< 0.5	NR
7/11/05	PWS3	GW	160 (TD)	NR	NA	NA	< 0.5	NA	< 0.5	<0.5	NR
Sampling in the CCC/USDA 2006-2007 Investigation											
3/9/07	PWS2	GW	155 (TD)	NR	NA	NA	ND	ND	ND	ND	NA
4/5/07	PWS2	GW	155 (TD)	NR	NA	NA	ND	ND	ND	ND	NA
3/9/07	PWS3	GW	160 (TD)	NR	NA	NA	0.2 J ⁿ	ND	ND	ND	NA
4/5/07	PWS3	GW	160 (TD)	NR	NA	NA	ND	ND	ND	ND	NA
7/19/06	MW1S	GW	13.3-23.3	Dry	NS	NS	NS	NS	NS	NS	NS
4/4/07	MW1S	GW	13.3-23.3	Dry	NS	NS	NS	NS	NS	NS	NS
7/19/06	MW1D	GW	139.8-159.4	135.20	NA	NA	1	ND	ND	ND	8.39
4/4/07	MW1D	GW	139.8-159.4	132.50	NA	NA	1.2	ND	ND	ND	NA
7/19/06	MW2D	GW	133.3-152.9	132.00	NA	NA	ND	ND	ND	ND	5.47
4/4/07	MW2D	GW	133.3-152.9	130.17	NA	NA	ND	ND	ND	ND	NA
7/19/06	MW3D	GW	133.0-152.7	128.96	NA	NA	ND	ND	ND	ND	7.84
4/4/07	MW3D	GW	133.0-152.7	126.64	NA	NA	ND	ND	ND	ND	NA
7/20/06	MW4D	GW	98.4-118.2	108.80	NA	NA	2.1	ND	ND	ND	6.88
4/6/07	MW4D	GW	98.4-118.2	108.00	NA	NA	3.5	0.1 J	ND	ND	NA
4/6/07	MW5	GW	110-120	108.40	NA	NA	0.6 J	ND	ND	ND	NA

TABLE B.1 (Cont.)

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						
					Field Laboratory Analysis		Off-Site Laboratory Analysis				Nitrates (ppm)
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
4/4/07	MW6S	GW	90.5-100.5	Dry	NS	NS	NS	NS	NS	NS	NS
4/5/07	MW6D	GW	105-115	105.00	NA	NA	ND	ND	ND	ND	NA
4/6/07	MW7	GW	116-126	111.11	NA	NA	1.0	ND	ND	ND	NA
4/6/07	MW8	GW	110-120	111.71	NA	NA	14	0.7 J	ND	ND	NA
4/5/07	MW9	GW	100-110	102.90	NA	NA	1.0	ND	ND	ND	NA
4/6/07	MW10S	GW	93-103	82.55	NA	NA	20	1.4	ND	ND	NA
4/6/07	MW10D	GW	115-125	113.14	NA	NA	2.4	0.2 J	ND	ND	NA
4/4/07	MW11S	GW	40-50	25.90	NA	NA	ND	1.1	ND	ND	NA
4/5/07	MW11M	GW	90-100	89.30	NA	NA	ND	ND	ND	ND	NA
4/4/07	MW11D	GW	125-135	117.15	NA	NA	1.1	ND	ND	ND	NA
4/5/07	MW12S	GW	43-53	Dry	NS	NS	NS	NS	NS	ND	NA
4/5/07	MW12M	GW	90-100	81.05	NA	NA	20	4.2	ND	ND	NA
4/5/07	MW12D	GW	115-125	110.20	NA	NA	0.6 J	ND	ND	ND	NA
4/5/07	MW13S	GW	112-122	101.00	NA	NA	21	1.6	ND	ND	NA
4/5/07	MW13D	GW	127-137	124.67	NA	NA	3.5	0.4 J	ND	ND	NA
4/4/07	MW14S	GW	108-118	114.60	NA	NA	0.9 J	ND	ND	ND	NA
4/4/07	MW14D	GW	123-133	114.00	NA	NA	1.2	ND	ND	ND	NA
4/4/07	MW15S	GW	88-98	91.50	NA	NA	1.5	ND	ND	ND	NA
4/4/07	MW15D	GW	105-115	88.30	NA	NA	ND	ND	ND	ND	NA
4/4/07	MW16S	GW	76-86	81.00	NA	NA	ND	ND	ND	ND	NA
4/4/07	MW16D	GW	90-100	79.71	NA	NA	ND	ND	ND	ND	NA
4/4/07	MW17	GW	120-130	110.68	NA	NA	ND	ND	ND	ND	NA
7/20/06	Oentrich	GW	150	NR	NA	NA	0.3 J	ND	ND	ND	3.26
8/2/06	Oentrich	GW	150	NR	NA	NA	0.6 J	ND	ND	ND	NA

TABLE B.1 (Cont.)

Date	Location	Medium ^b	Sample Depth (ft BGL)	Depth to Water (ft TOC)	Concentration (ppb)						Nitrates (ppm)
					Field Laboratory Analysis		Off-Site Laboratory Analysis				
					Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform	Methylene Chloride	Total BTEX ^a	
4/5/07	Oentrich	GW	150	NR	NA	NA	0.6 J	ND	ND	ND	NA
8/22/06	Sedivy	GW	138	124.20	NA	NA	ND	ND	ND	ND	NA
9/13/06	Sedivy	GW	138	124.30	NA	NA	ND	ND	ND	ND	NA
9/13/06	Sedivy1	GW	90	Dry	NA	NA	NS	NS	NS	NS	NS

^a BTEX: benzene toluene, ethylbenzene, and xylene.

^b Medium types: DW, drinking water; GW, groundwater; S, soil; SG, soil gas.

^c TD: total depth.

^d NM: not measured.

^e NA: sample not analyzed for this constituent.

^f ND: contaminant not detected.

^g NR: result not reported in investigation reports on file.

^h Trihalomethane compounds other than chloroform reported at trace concentrations.

ⁱ Acetone present at low concentration is likely a laboratory contaminant.

^j NS: no sample (dry well).

^k Site of Barnes south former CCC/USDA facility.

^l Not sampled because of the presence of free product.

^m Sample received by the analytical laboratory at a temperature of 15°C (KDHE 2002).

ⁿ Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 1.0 µg/L.

TABLE B.2 Construction summary for wells at Barnes, Kansas.

Well Name	Well Location	WWC-5 Filed	Well Diameter (in.)	Casing Type	Elevation (ft AMSL)		Screen Length (ft)	Depth (ft BGL)			Completion Date
					Ground	Casing		Screen	Filter	Total	
Public wells (reported by KDHE 1997a)											
PWS2	1000 ft west of CCC/USDA facility	No	10	Steel	Unk ^b	Unk	Unk	Unk	Unk	155	1928
PWS3	1000 ft west of CCC/USDA facility	No	8	Steel	Unk	Unk	Unk	Unk	Unk	160	1955
Private wells (well depths for Oentrich, Perkins, and Rothlisberger wells, as reported by PRC [1996])											
Cooney	5/8 mi west-southwest of CCC/USDA facility	No	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk
Oentrich	200 ft south of CCC/USDA facility	No	6	Unk	1342.47	1336.93	Unk	Unk	Unk	~150	Unk
Perkins	3/4 mi south of CCC/USDA facility	No	Unk	Unk	Unk	Unk	Unk	Unk	Unk	~60	Unk
Rothlisberger	3/8 mi southeast of CCC/USDA facility	No	Unk	Unk	Unk	Unk	Unk	Unk	Unk	~100	Unk
Finch	Approximately 1 mi south of Barnes	No	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk
Sedivy	East St. and Railroad Ave.	No	4	Unk	Unk	Unk	Unk	Unk	Unk	138	Unk
Monitoring wells installed for carbon tetrachloride investigation (construction details reported by BE&K [1999])											
MW-1S	North of former agricultural bldg	No	2	PVC	1352.60	1352.16	10	13.3–23.3	Unk	23.66	12/98
MW-1D	North of former agricultural bldg	No	2	PVC	1352.60	1351.92	15	139.85–159.40	Unk	160.53	12/98
MW-2D	Approximately 140 ft north of PWS2	No	2	PVC	1349.78	1349.51	15	133.26–152.93	128.9–153.37	153.37	12/98
MW-3D	Northeast of intersection of alley and 2 nd Ave.	No	2	PVC	1347.03	1346.60	15	133.02–152.73	129–153.33	153.33	12/98
MW-4D	Former CCC/USDA facility	No	2	PVC	1327.67	1326.93	15	98.38–118.22	94–118.82	118.82	12/98
Monitoring wells installed for Westside Service underground storage tank investigation (construction information from WWC registrations in state database and AEI [2000])											
MW-1	West of Co-op, south of railroad	Yes	2	PVC	1338.20	1337.80	35	10–45	9–45	45	9/99
MW-2	West of Co-op, south of railroad	Yes	2	PVC	1337.67	1337.19	35	10–45	9–45	45	9/99
MW-3	West of Co-op, south of railroad	Yes	2	PVC	1337.10	1336.81	30	10–40	9–40	40	9/99
MW-4	West of Co-op, south of railroad	Yes	2	PVC	1337.62	1337.29	35	10–45	9–45	45	9/99
MW-5	West of Co-op, south of railroad	Yes	2	PVC	1336.52	1336.17	40	10–50	9–50	50	9/99
MW-7 ^a	West of Co-op, south of railroad	Yes	2	PVC	1338.13	1337.82	40	24.5–64.5	23.5–64.5	64.5	9/99
MW-8 ^a	West of Co-op, south of railroad	Yes	2	PVC	1337.66	1337.29	40	23.5–63.5	22.5–63.5	63.5	9/99
MW-9	West of Co-op, south of railroad	Yes	2	PVC	1336.09	1335.75	40	40–80	39–80	85	9/99
Monitoring wells installed during the 2007 investigation by CCC/USDA											
MW5	175 ft north of Second Ave.	Yes	2	PVC	1327.66	1327.20	10	110-120	108-127	127	8/2/06
MW6S	80 ft east of Second Ave. and East St.	Yes	2	PVC	1323.88	1323.13	10	90.5-100.5	88.5-101.5	101.5	3/5/07
MW6D	80 ft east of Second Ave. and East St.	Yes	2	PVC	1323.88	1323.15	10	105-115	104.5-125	125	3/5/07
MW7	60 ft north of Second Ave.	Yes	2	PVC	1330.53	1329.91	10	116-126	114-126	126	8/6/06

TABLE B.2 (Cont.)

Well Name	Well Location	WWC-5 Filed	Well Diameter (in.)	Casing Type	Elevation (ft AMSL)		Screen Length (ft)	Depth (ft BGL)			Completion Date
					Ground	Casing		Screen	Filter	Total	
Monitoring wells installed during the 2007 investigation by CCC/USDA (cont.)											
MW8	35 ft north of Second Ave.	Yes	2	PVC	1330.78	1330.06	10	110-120	108-120	120	8/5/06
MW9	90 ft east of Center Street	Yes	2	PVC	1319.10	1321.86	10	100-110	98-110	110	8/2/06
MW10S	120 ft north of Second Ave.	Yes	2	PVC	1331.57	1331.33	10	93-103	91-103	103	8/17/06
MW10D	120 ft north of Second Ave.	Yes	2	PVC	1331.57	1331.33	10	115-125	113-125	125	8/17/06
MW11S	120 ft east of Main St.	Yes	1	PVC	1336.70	1336.58	10	40-50	37-52	52	9/6/06
MW11M	120 ft east of Main St.	Yes	2	PVC	1336.70	1336.51	10	90-100	88-102	102	9/6/06
MW11D	120 ft east of Main St.	Yes	2	PVC	1336.70	1336.53	10	125-135	123-135	135	9/6/06
MW12S	80 ft west of Center St.	Yes	1	PVC	1327.99	1327.46	10	43-53	41-55	55	9/10/06
MW12M	80 ft west of Center St.	Yes	2	PVC	1327.99	1327.46	10	90-100	88-102	102	9/10/06
MW12D	80 ft west of Center St.	Yes	2	PVC	1327.99	1327.52	10	115-125	113-125	125	9/8/06
MW13S	6 ft east of Main St. and 200 ft south of Third St.	Yes	2	PVC	1342.92	1342.36	10	112-122	110-123	123	3/1/07
MW13D	6 ft east of Main St. and 200 ft south of Third St.	Yes	2	PVC	1342.92	1342.37	10	127-137	137	137	3/1/07
MW14S	10 ft South of Third St. and 150 ft west of Center St.	Yes	2	PVC	1333.08	1332.69	10	108-118	106-119	119	3/3/07
MW14D	10 ft South of Third St. and 150 ft west of Center St.	Yes	2	PVC	1333.08	1332.74	10	123-133	122-133	133	3/3/07
MW15S	165 ft east of Center St. and 560 ft north of Second Ave.	Yes	2	PVC	1309.65	1309.34	10	88-98	87-99	99	3/6/07
MW15D	165 ft east of Center St. and 560 ft north of Second Ave.	Yes	2	PVC	1309.65	1309.29	10	105-115	104-115	115	3/6/07
MW16S	210 ft north of Second Ave. and 970 ft east of Center St.	Yes	2	PVC	1299.98	1299.47	10	76-86	74-86	86	3/9/07
MW16D	200 ft north of Second Ave. and 970 ft east of Center St.	Yes	2	PVC	1299.98	1299.52	10	90-100	88-102	102	3/8/07
MW17	170 ft west of Main St. and 200 ft south of Third St.	Yes	2	PVC	1352.03	1351.77	10	120-130	118-130	130	3/9/07

^a Westside Service monitoring wells MW-7 and MW-8 were plugged on 4/22/04.

Appendix C:
Lithology Logs

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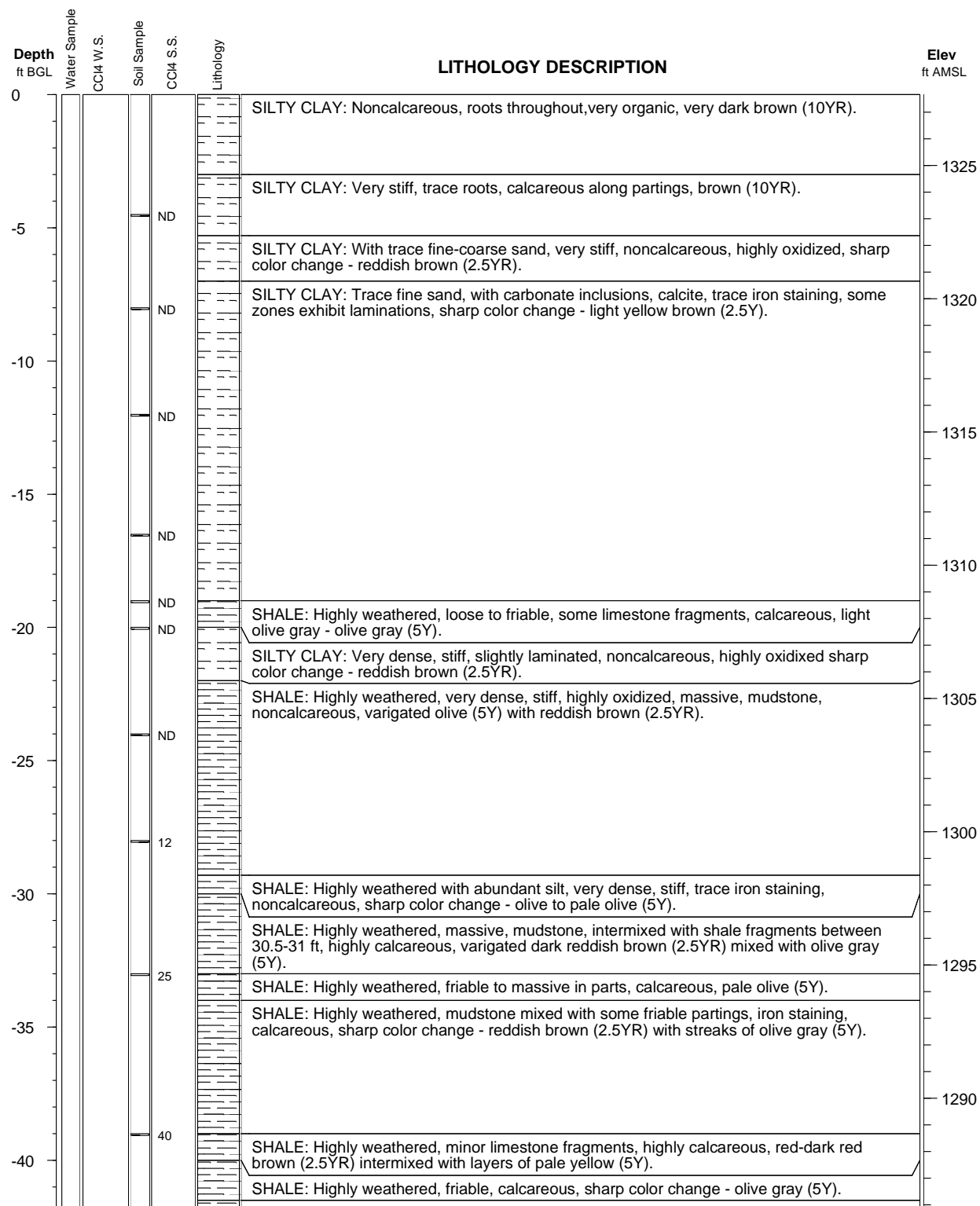
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Project: Barnes

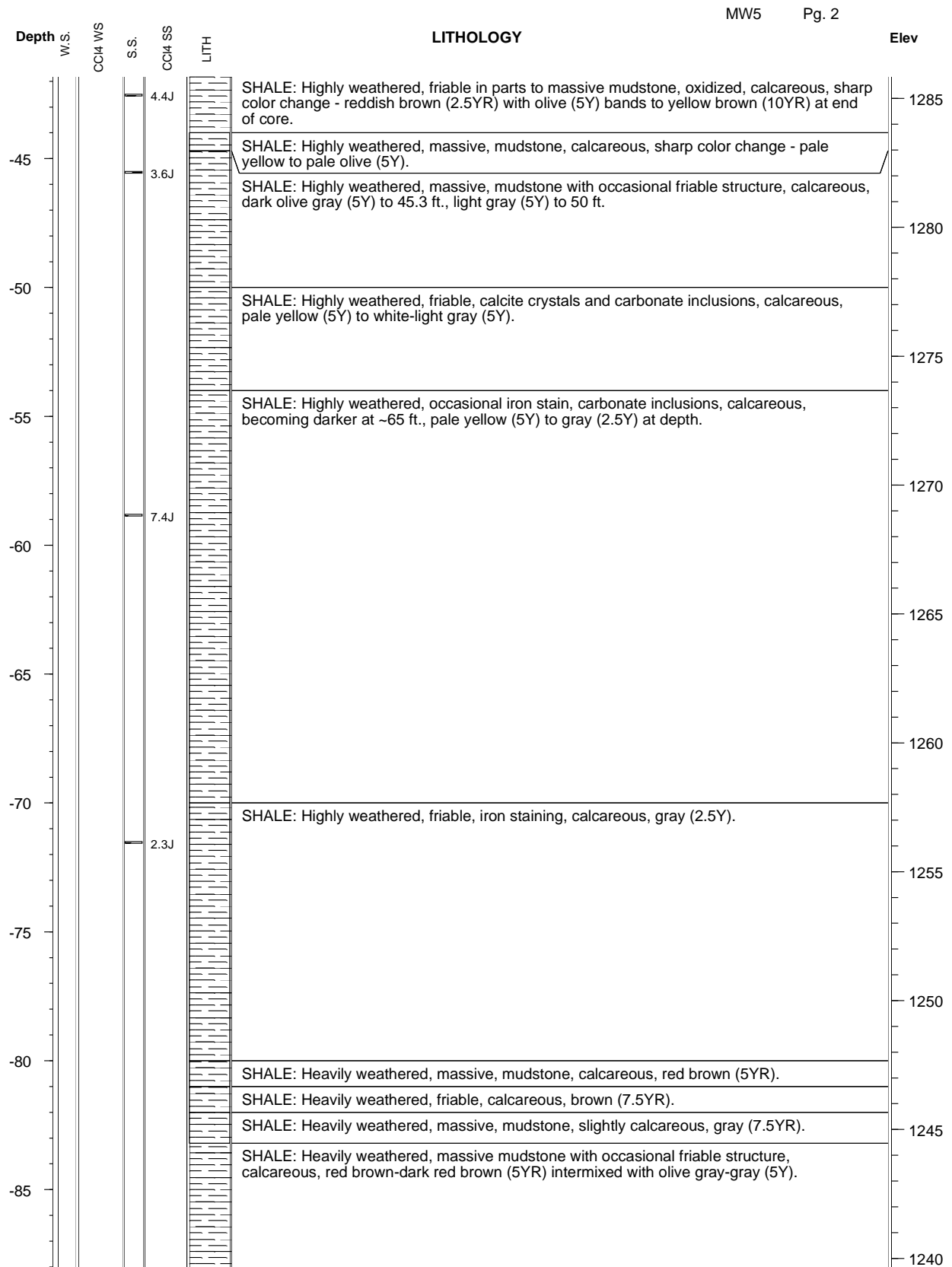
Elevation: 1327.661 ft.

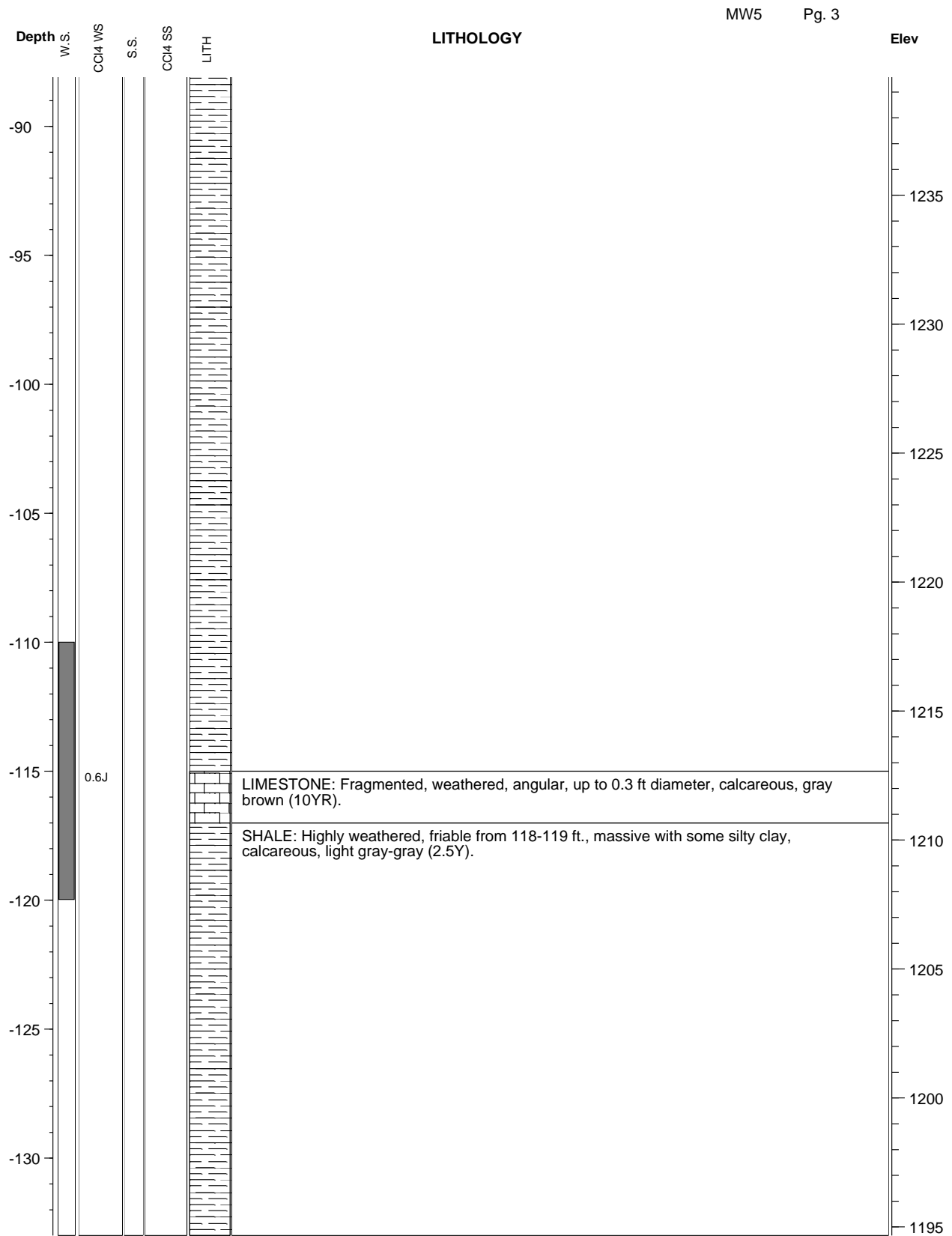
Geologist: Lisa Larsen

Depth: 133 ft. BGL



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg





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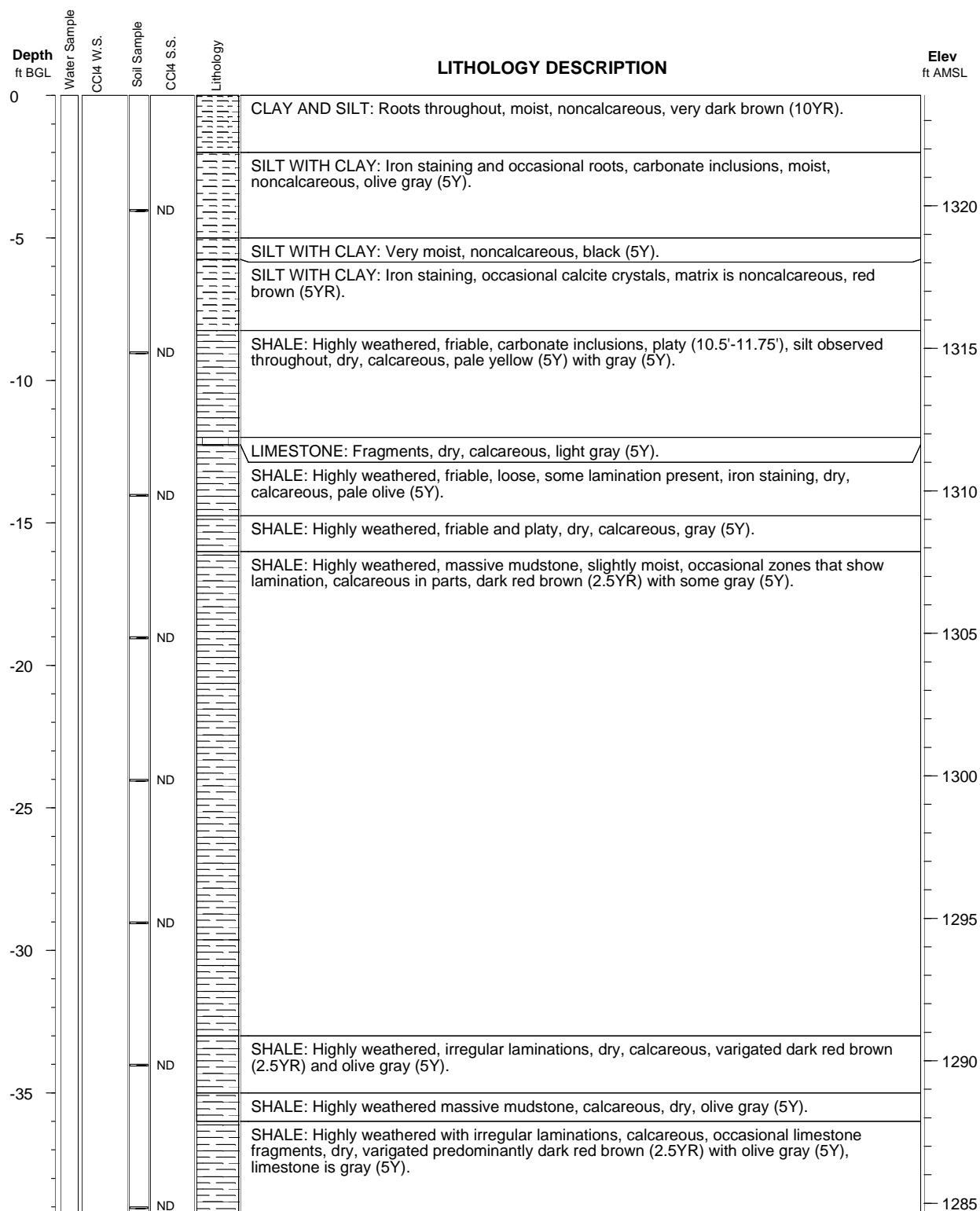
Boring ID: MW6

Project: Barnes

Elevation: 1323.877 ft.

Geologist: Lisa Larsen

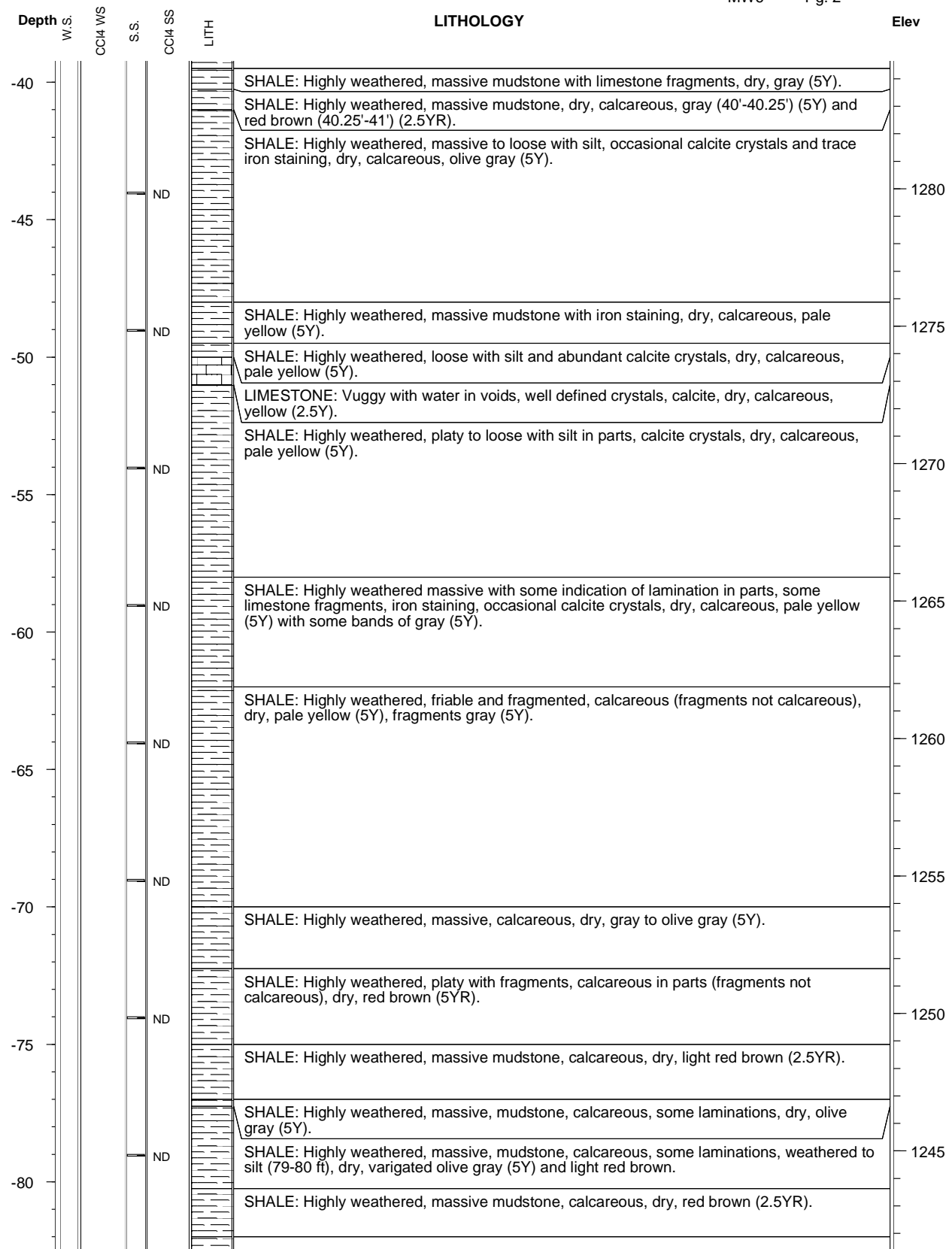
Depth: 125 ft. BGL



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW6

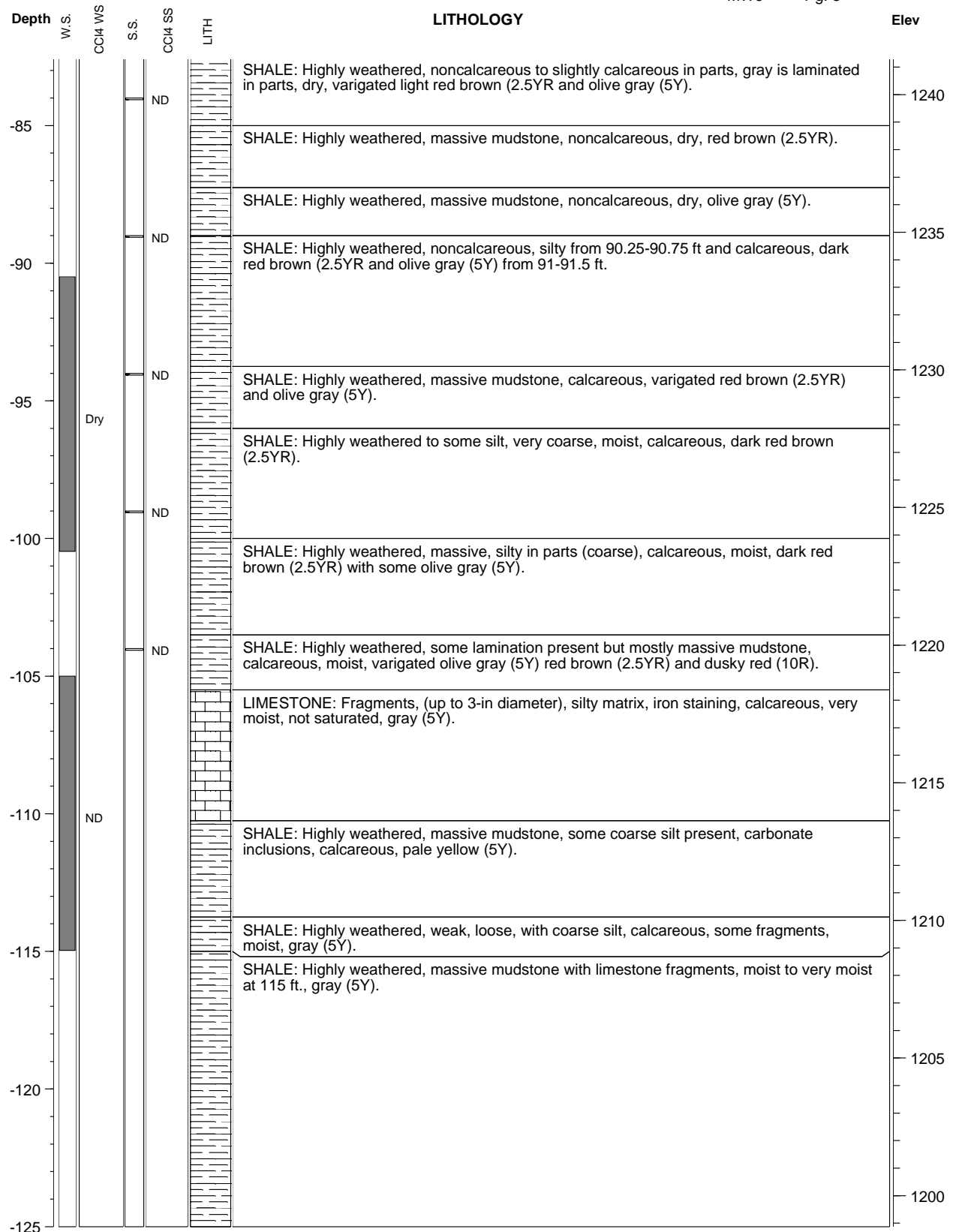
Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW6

Pg. 3



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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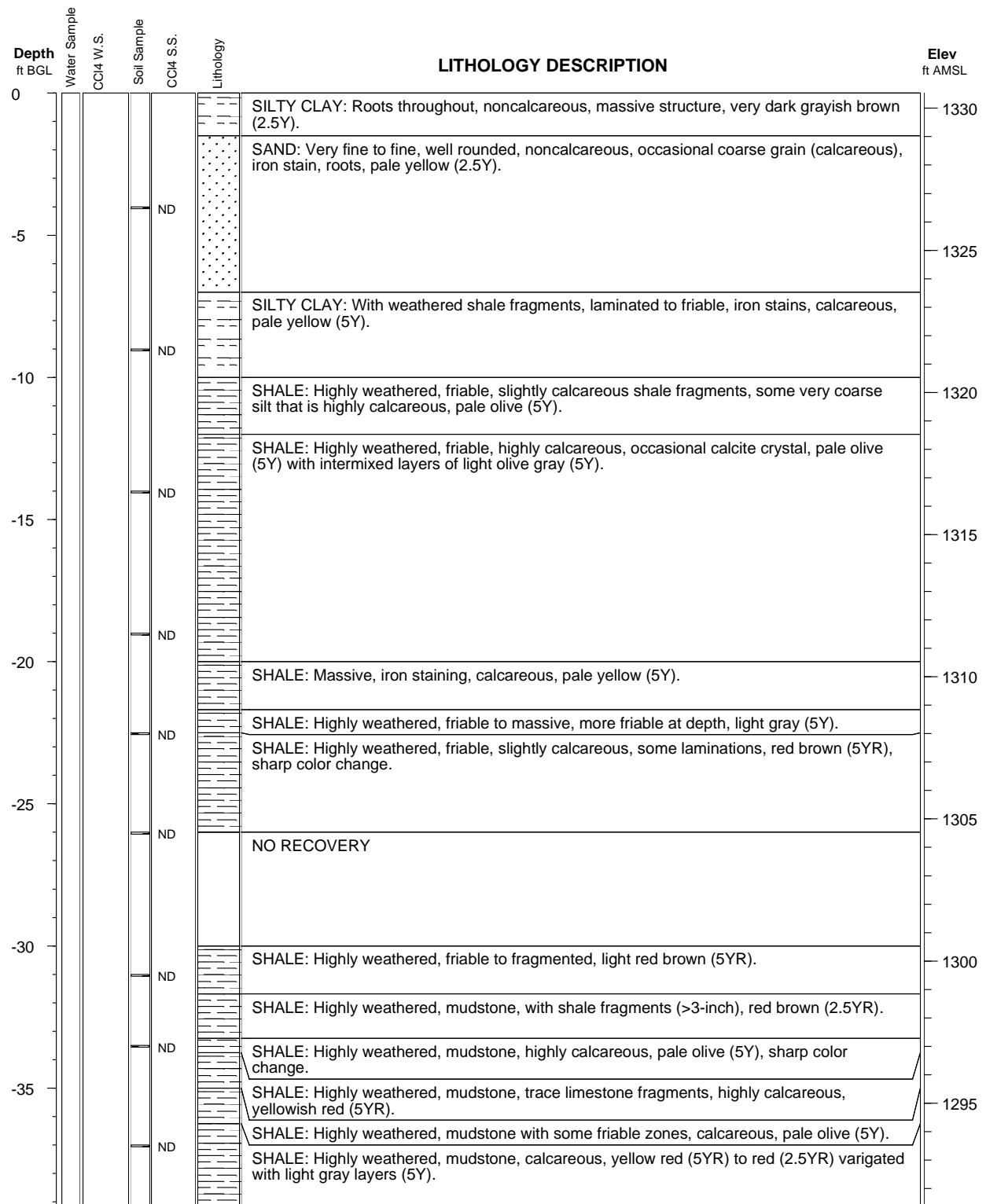
Boring ID: MW7

Project: Barnes

Elevation: 1330.533 ft.

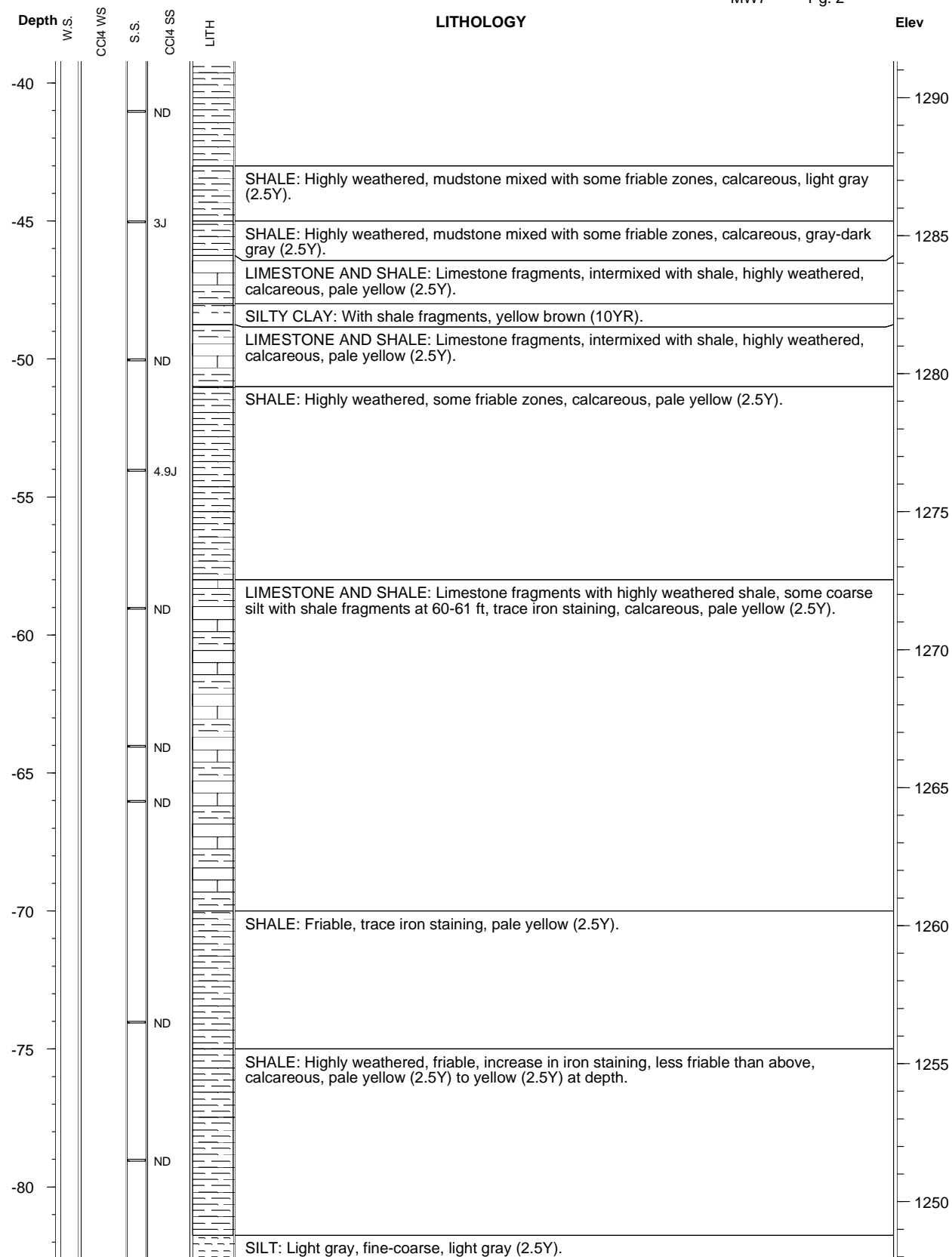
Geologist: Lisa Larsen

Depth: 126 ft. BGL

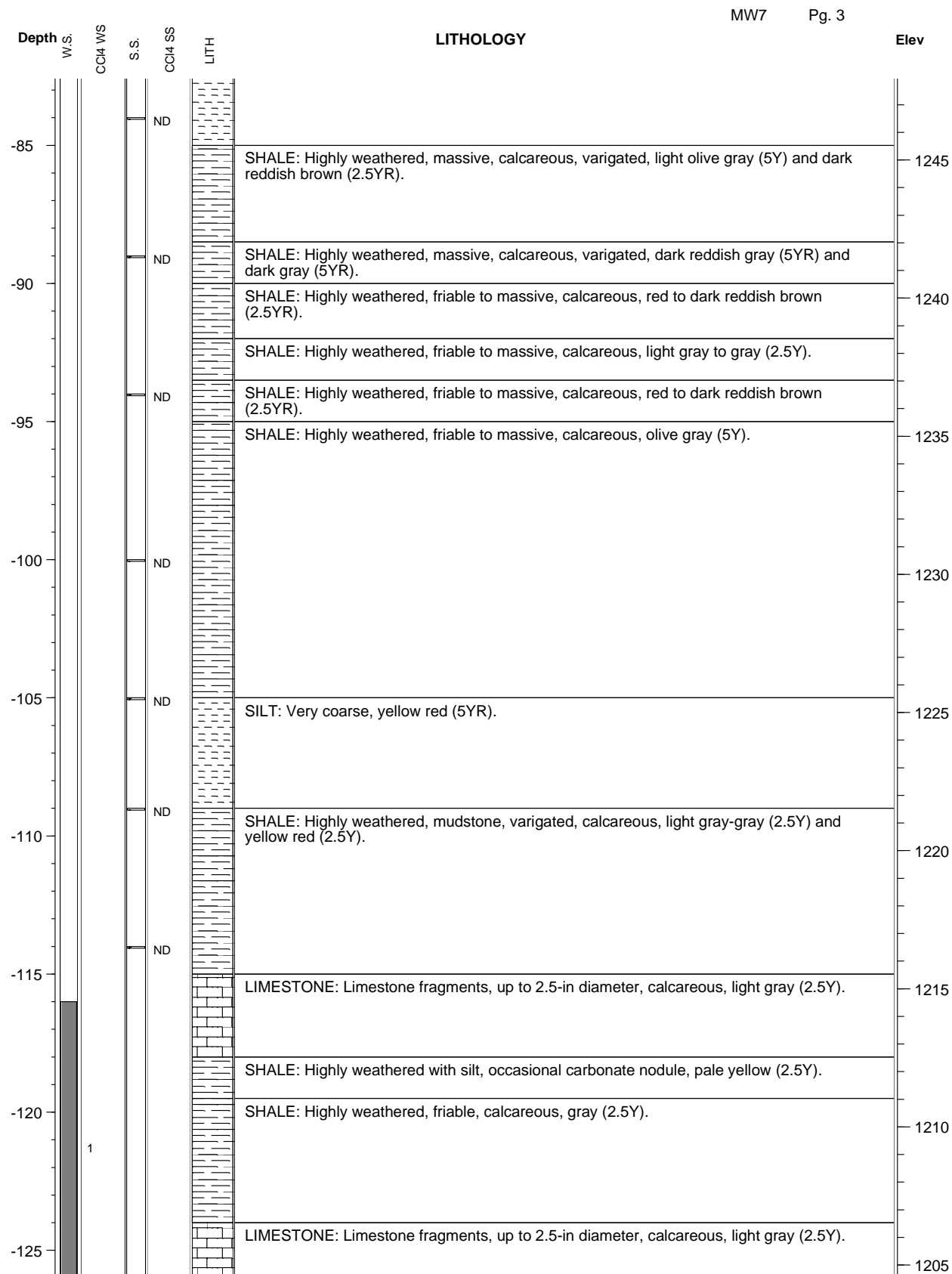


Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW7 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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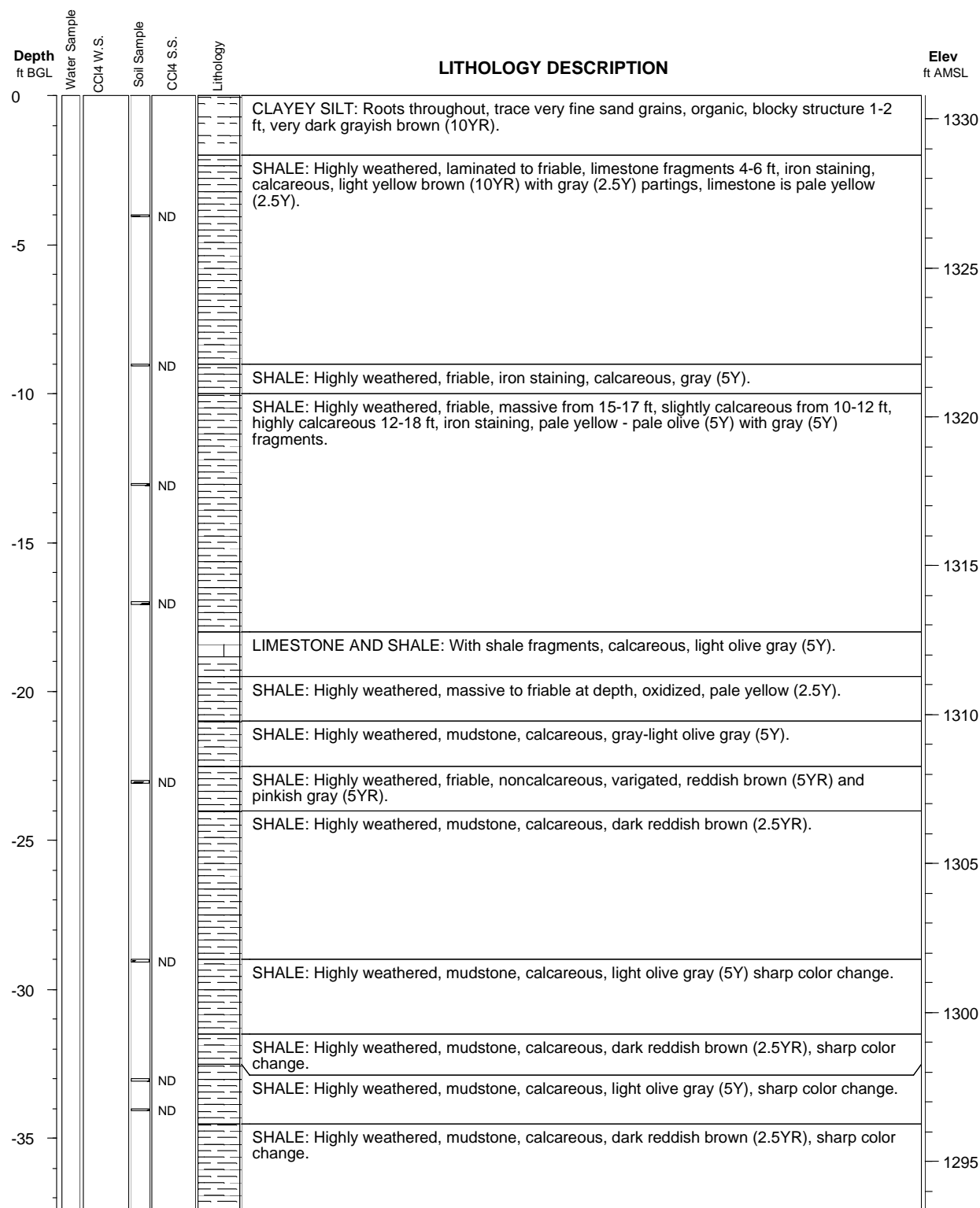
Boring ID: MW8

Project: Barnes

Elevation: 1330.775 ft.

Geologist: Lisa Larsen

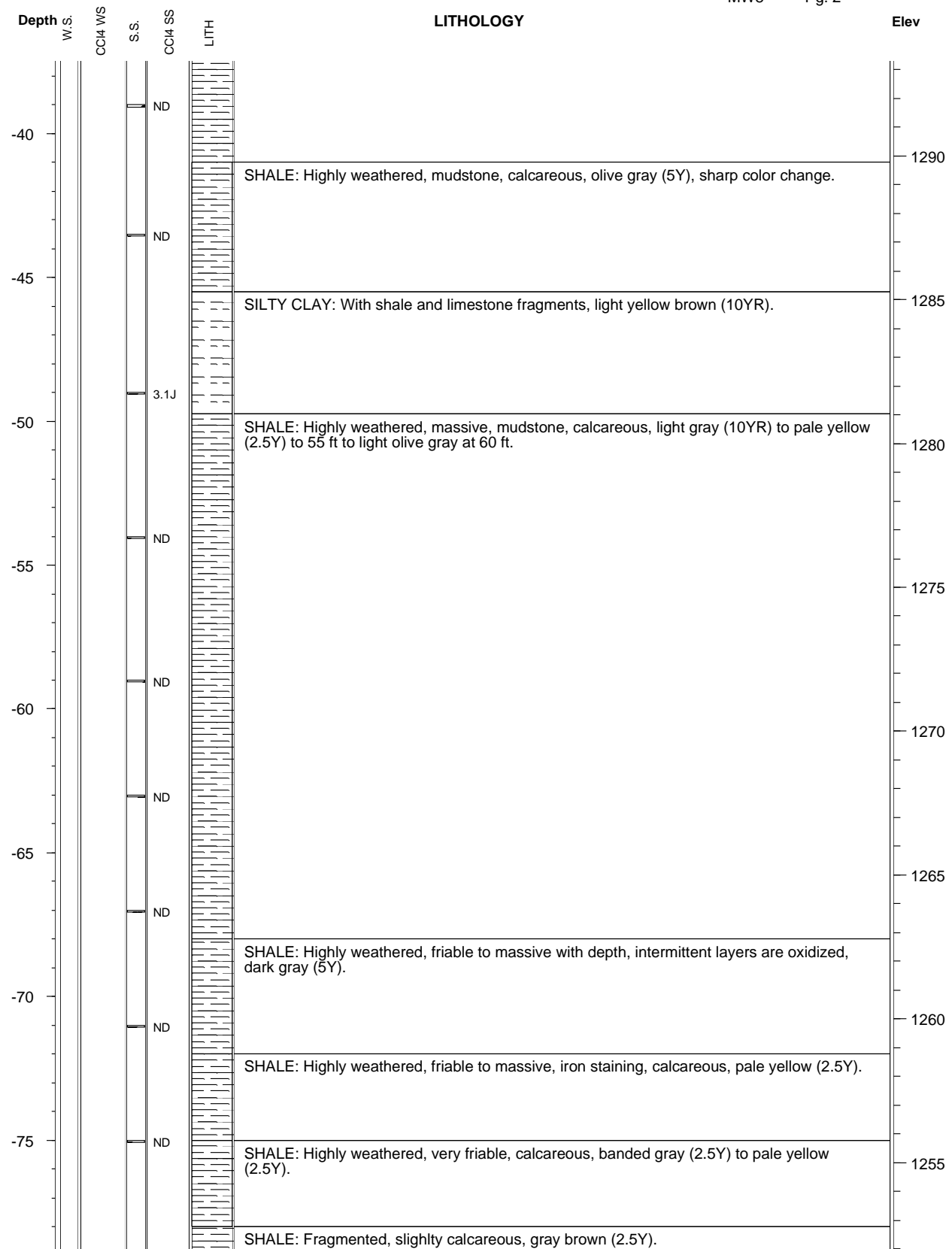
Depth: 120 ft. BGL



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

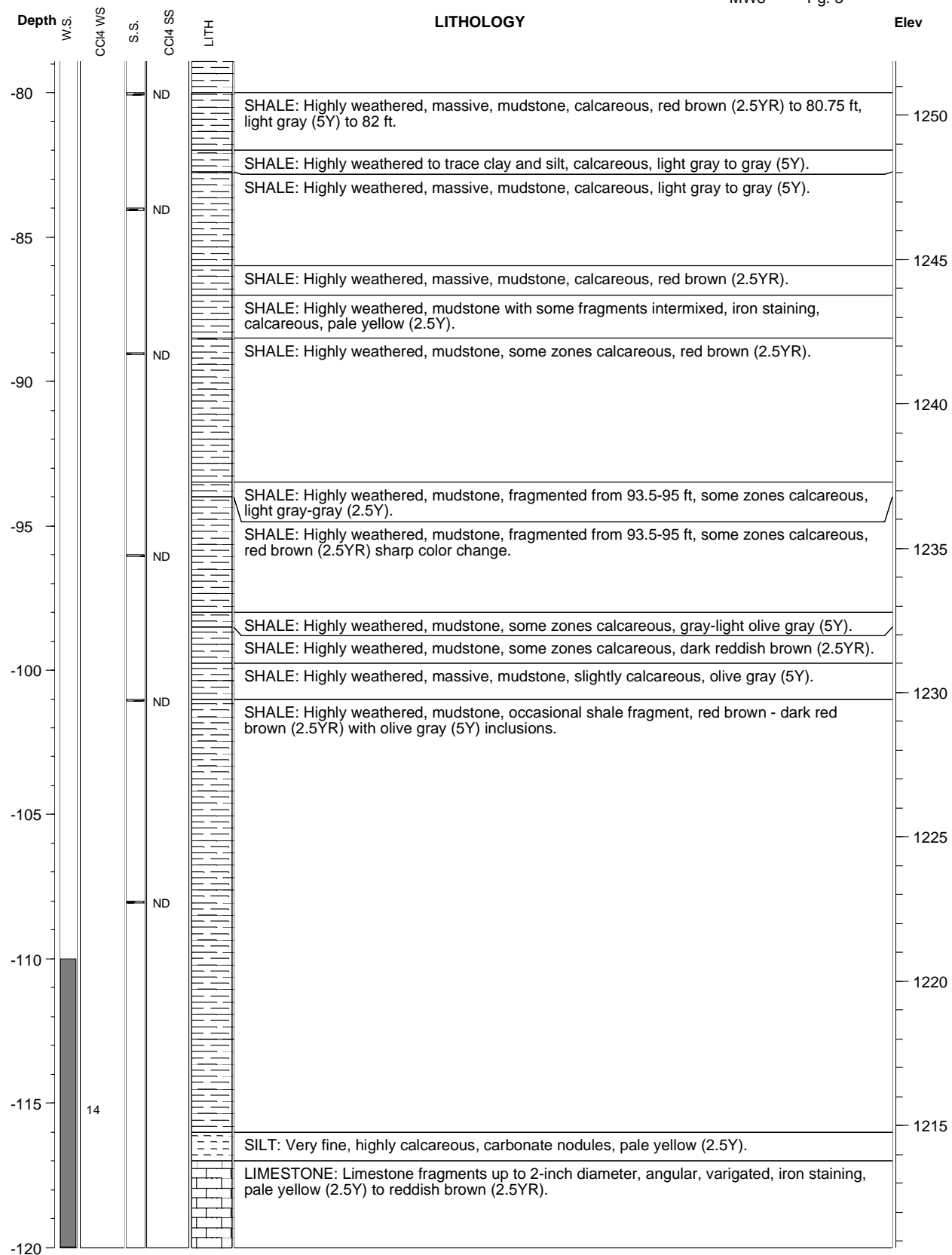
MW8

Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW8 Pg. 3



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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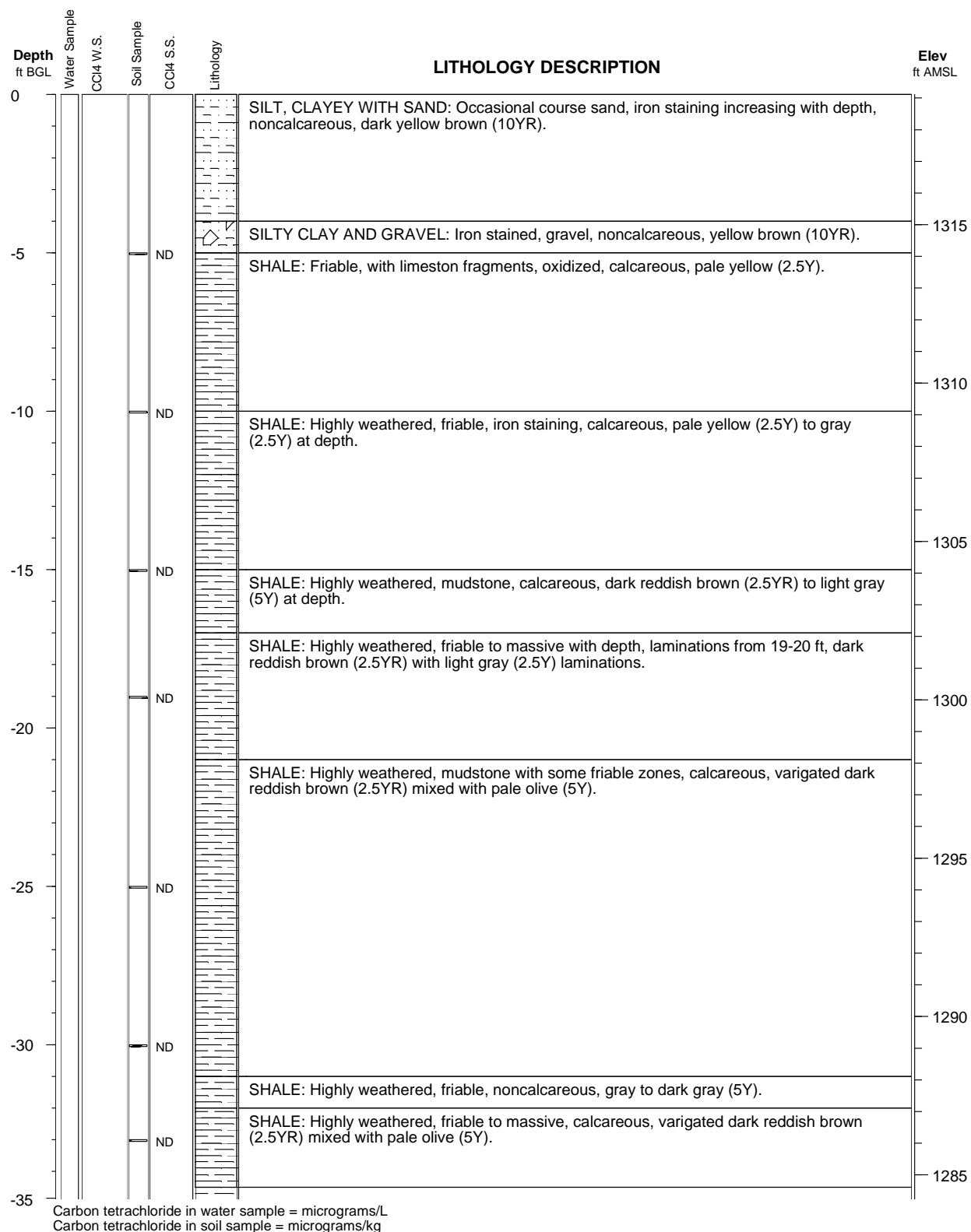
Boring ID: MW9

Project: Barnes

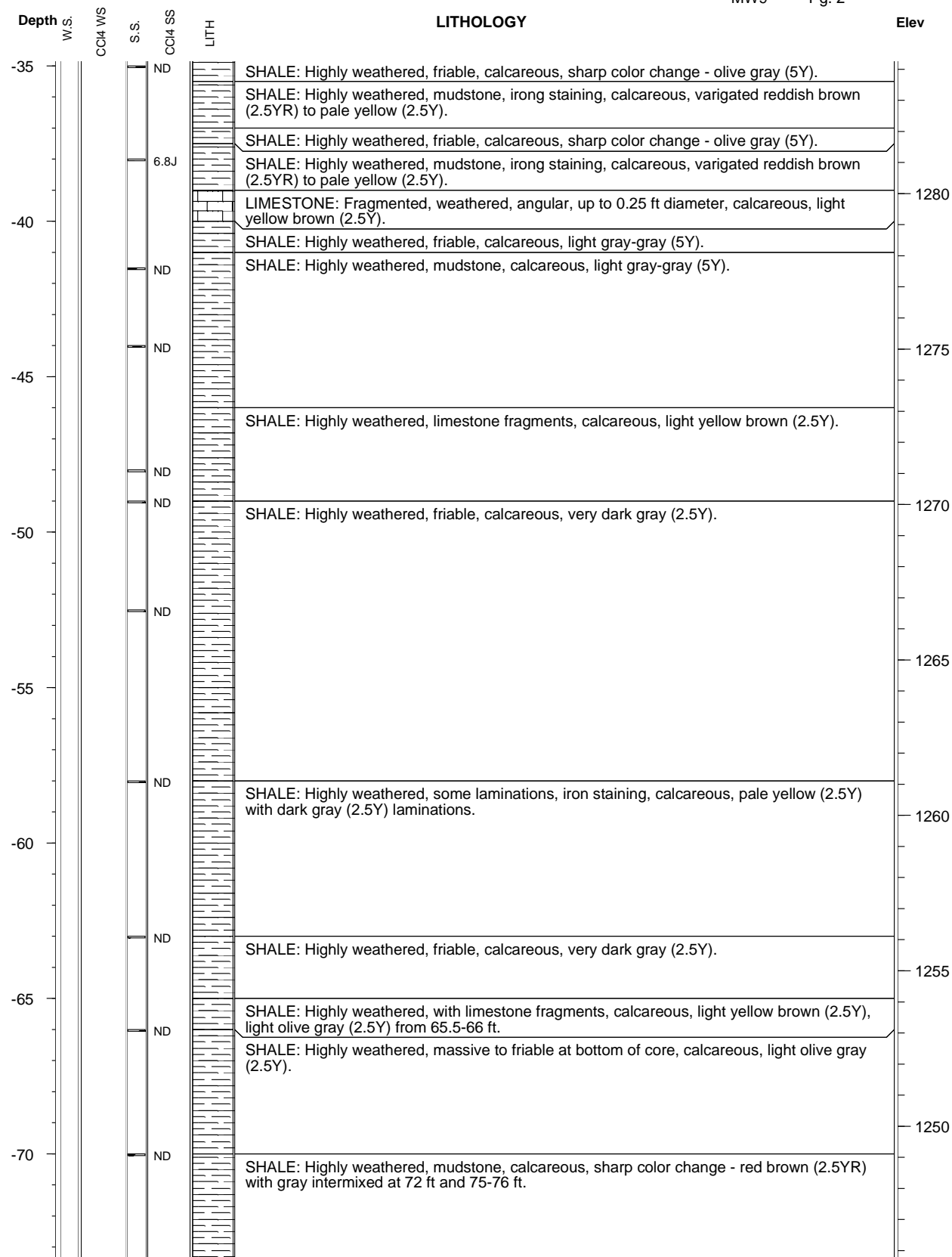
Elevation: 1319.103 ft.

Geologist: Lisa Larsen

Depth: 110 ft. BGL



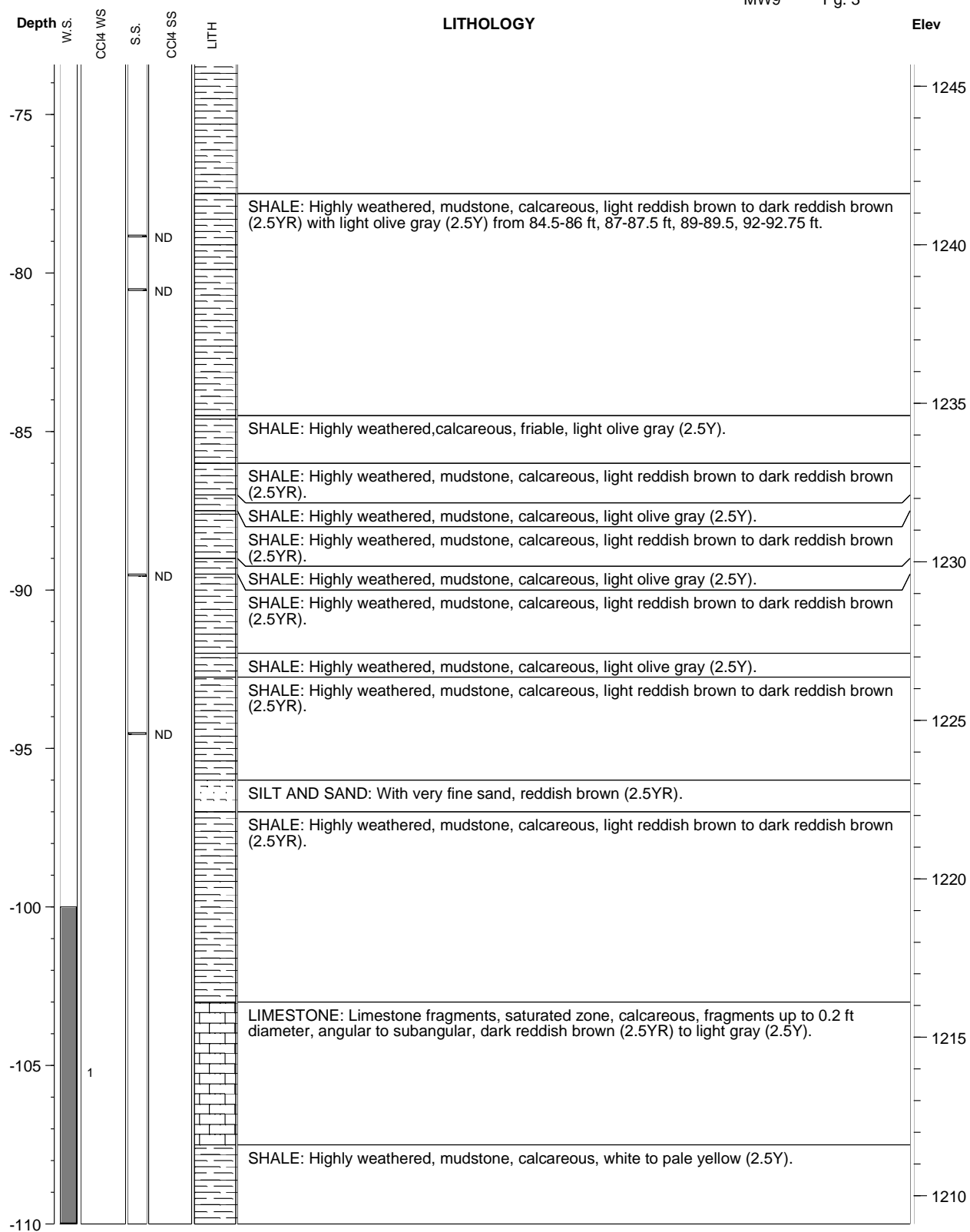
MW9 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW9

Pg. 3



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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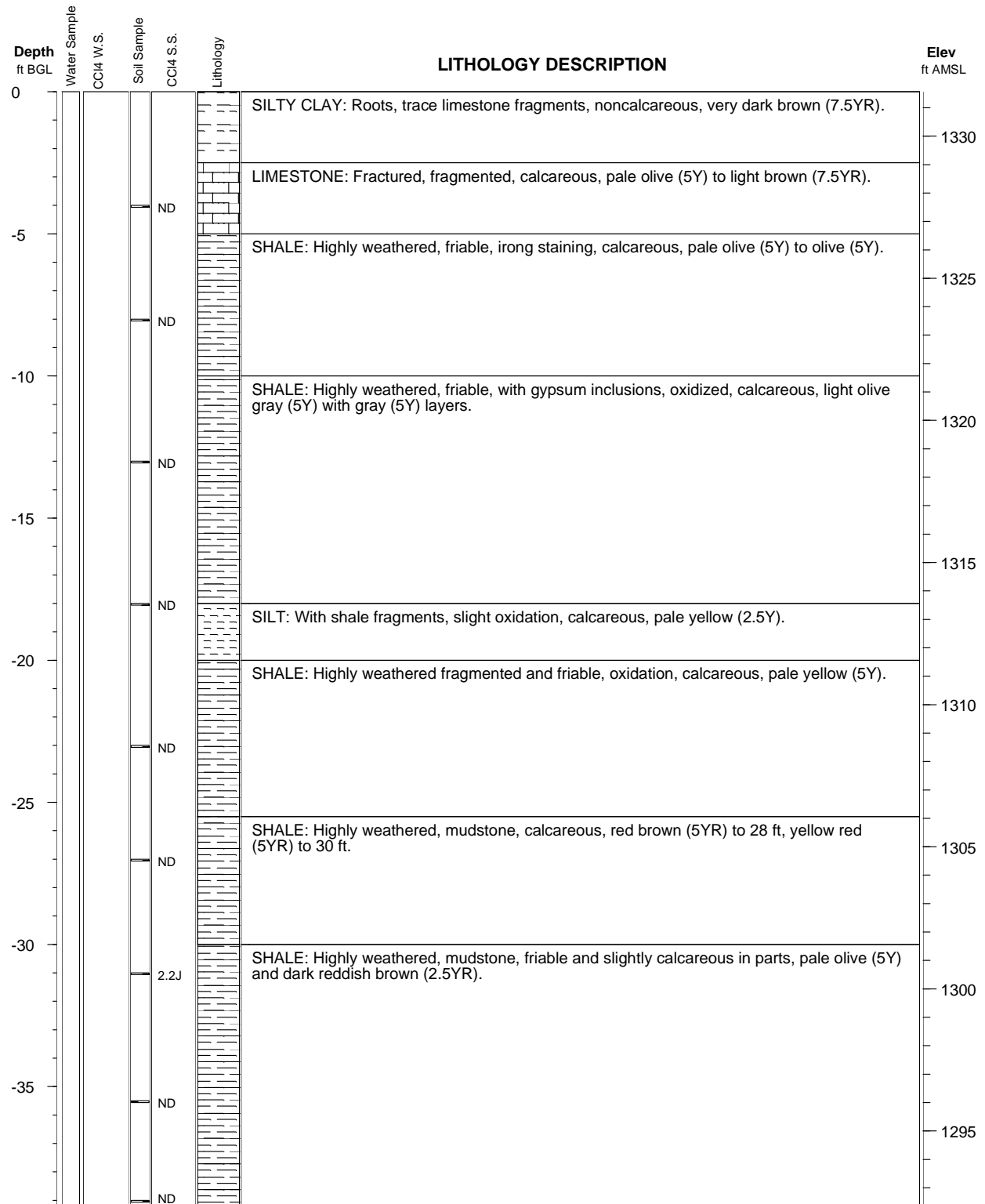
Boring ID: MW10

Project: Barnes

Elevation: 1331.573 ft.

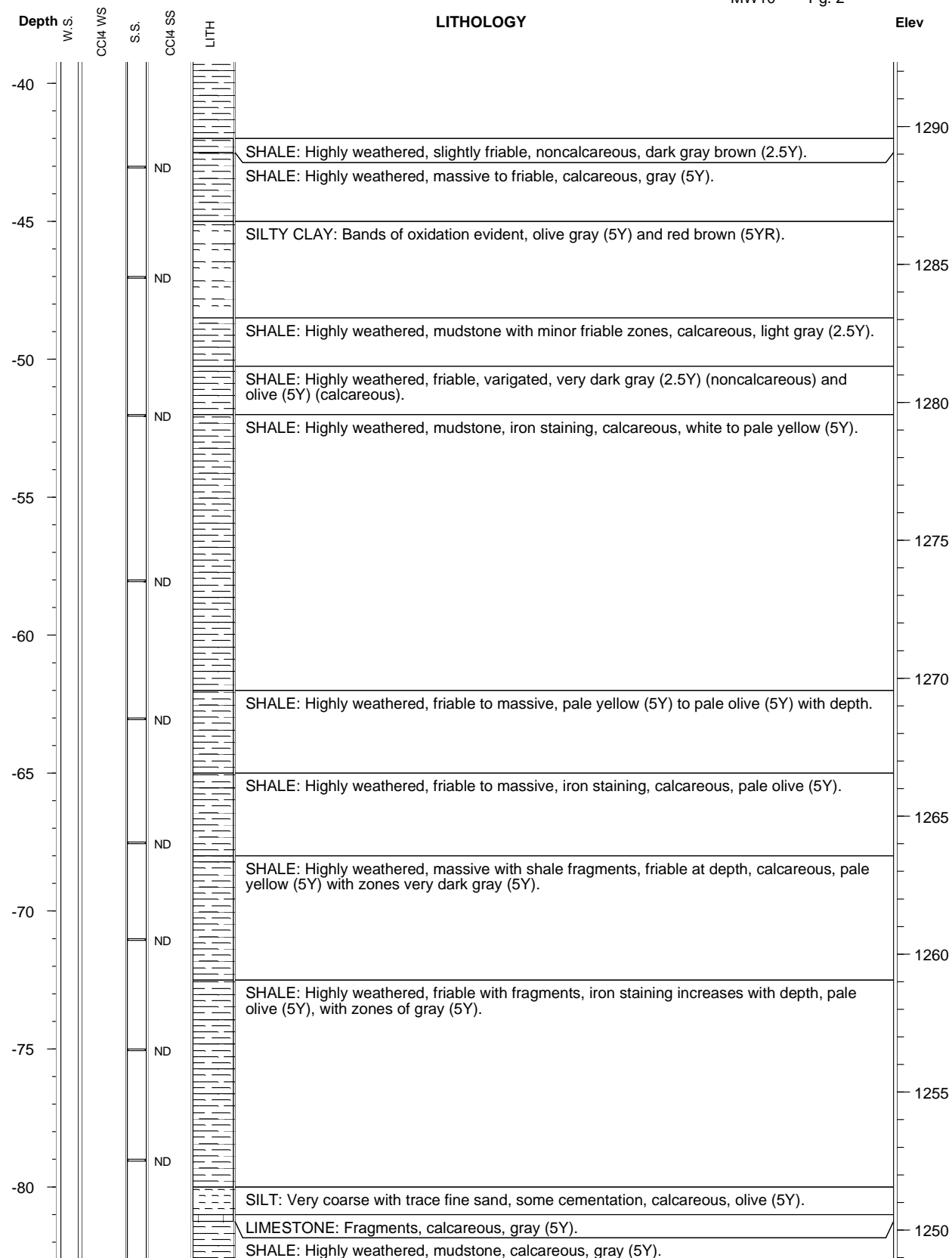
Geologist: Lisa Larsen

Depth: 125 ft. BGL



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

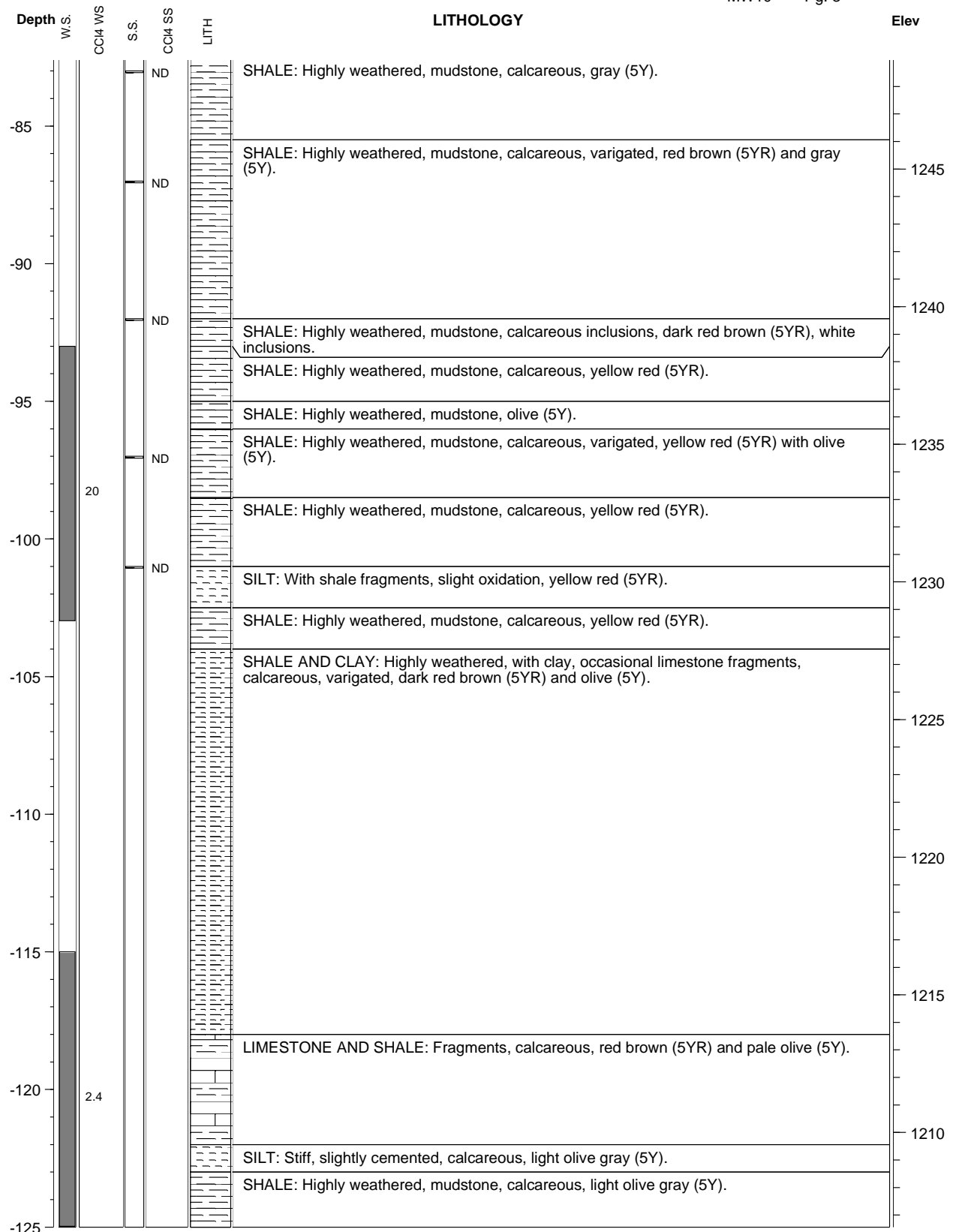
MW10 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW10

Pg. 3



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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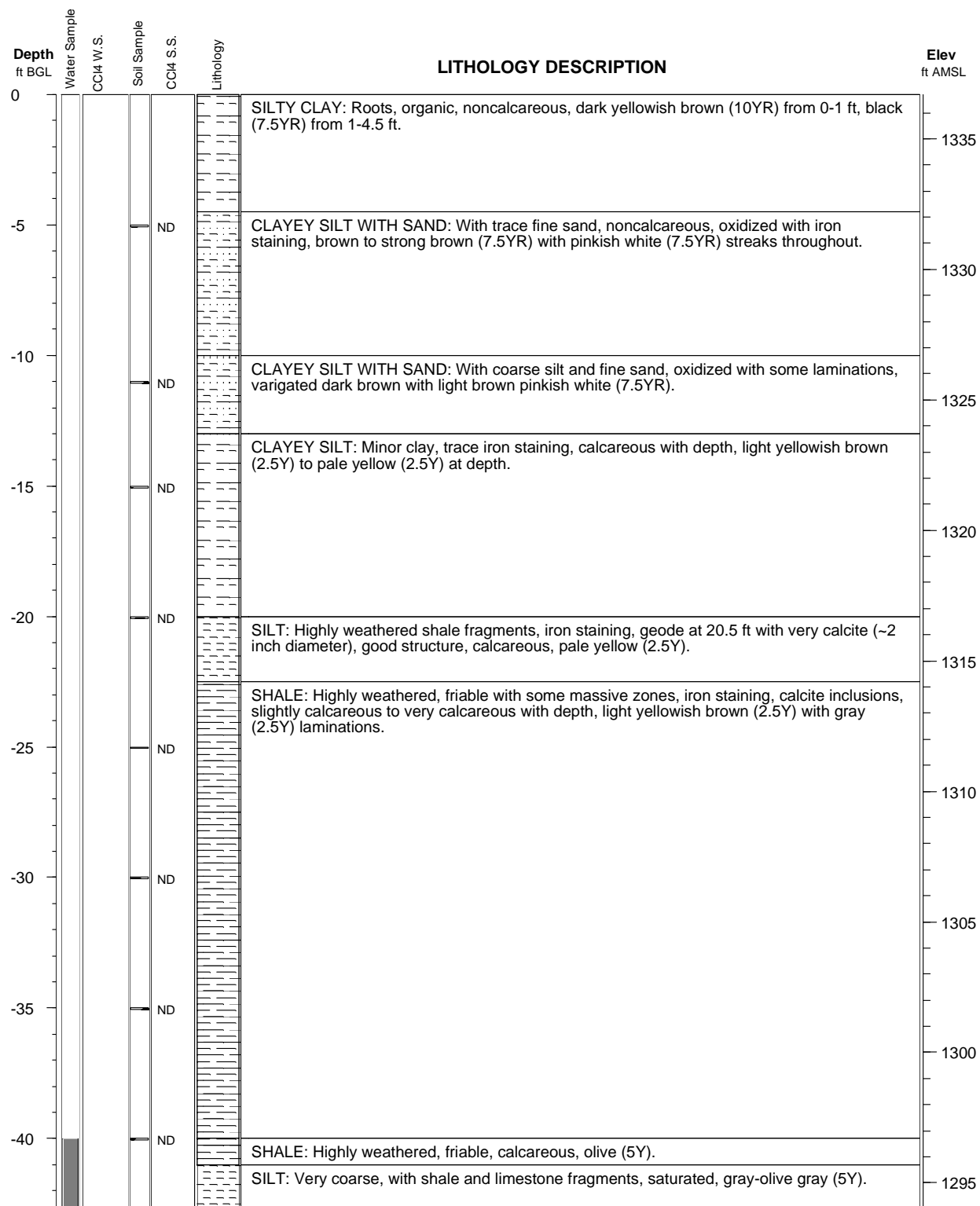
Boring ID: MW11

Project: Barnes

Elevation: 1336.703 ft.

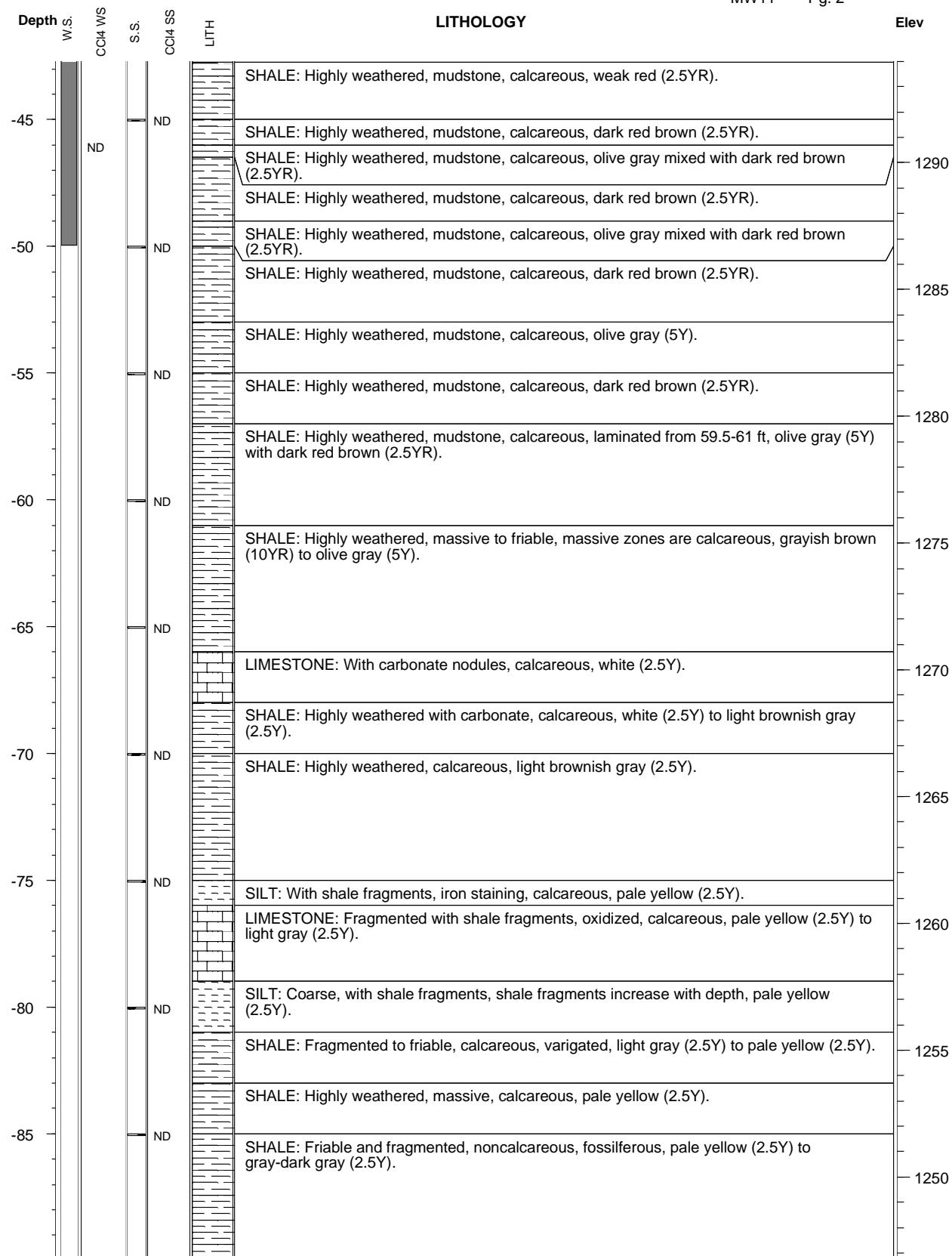
Geologist: Lisa Larsen

Depth: 135 ft. BGL

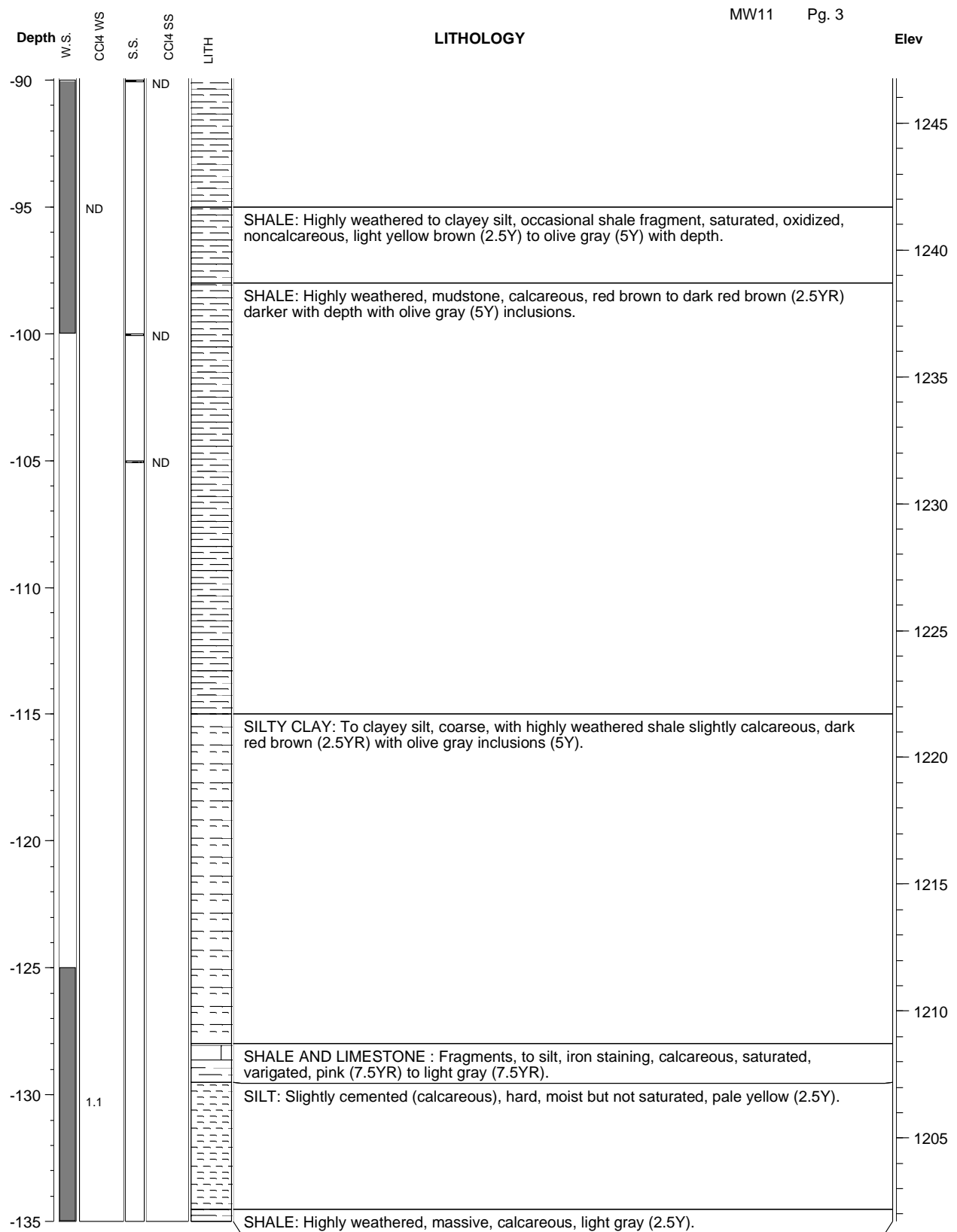


Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW11 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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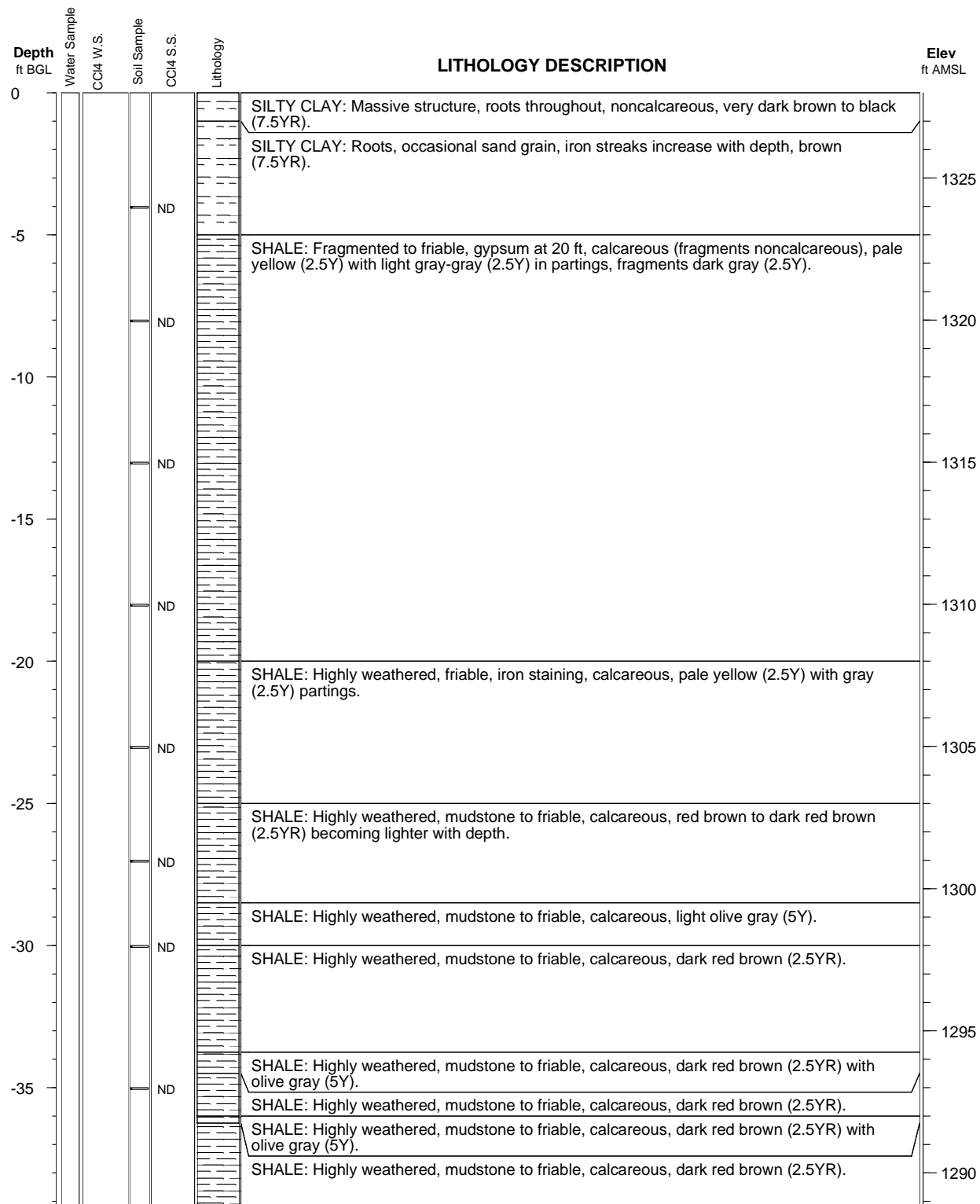
Boring ID: MW12

Project: Barnes

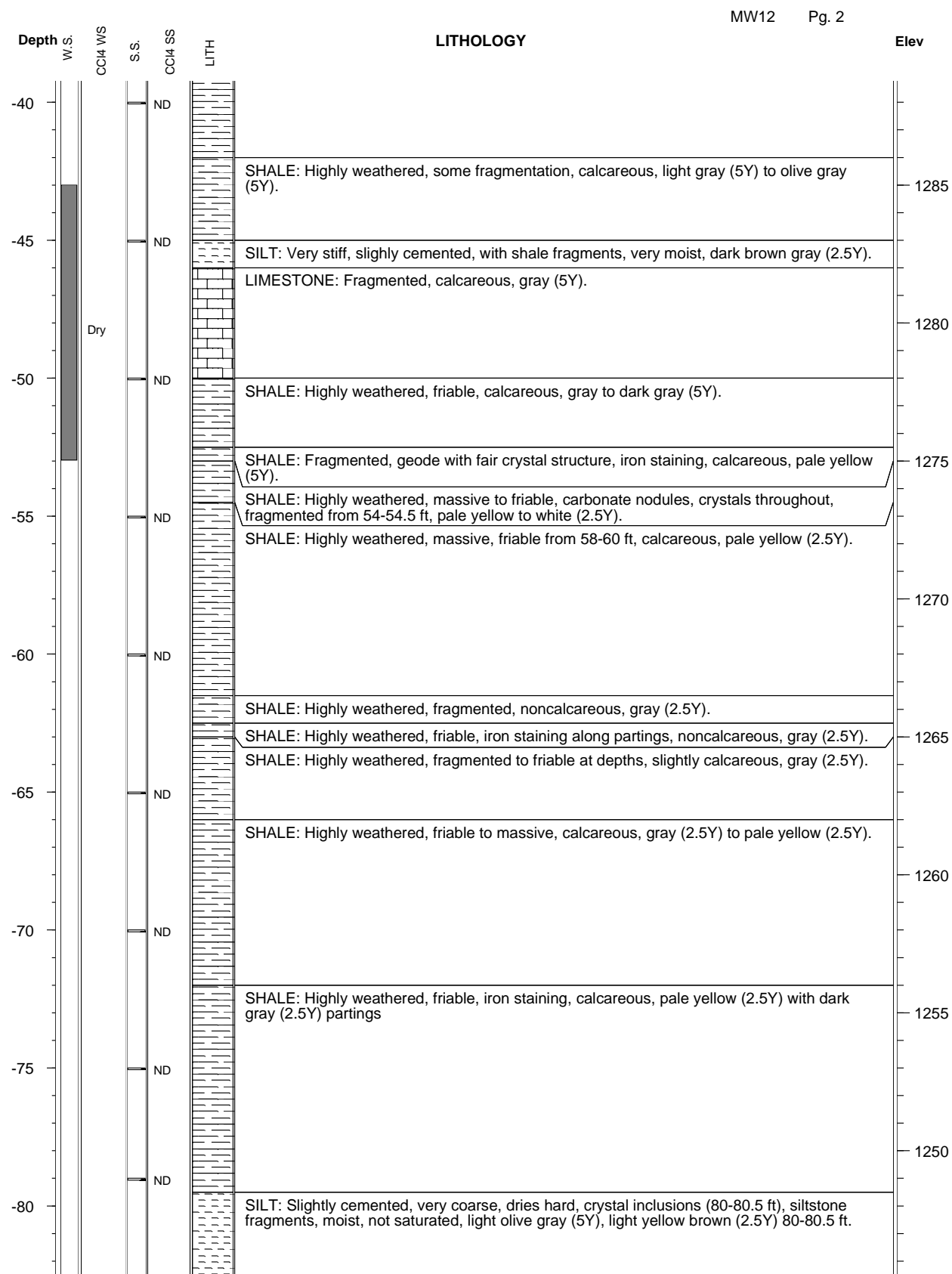
Elevation: 1327.992 ft.

Geologist: Lisa Larsen

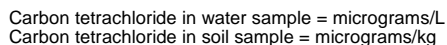
Depth: 125 ft. BGL



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Argonne National Laboratory

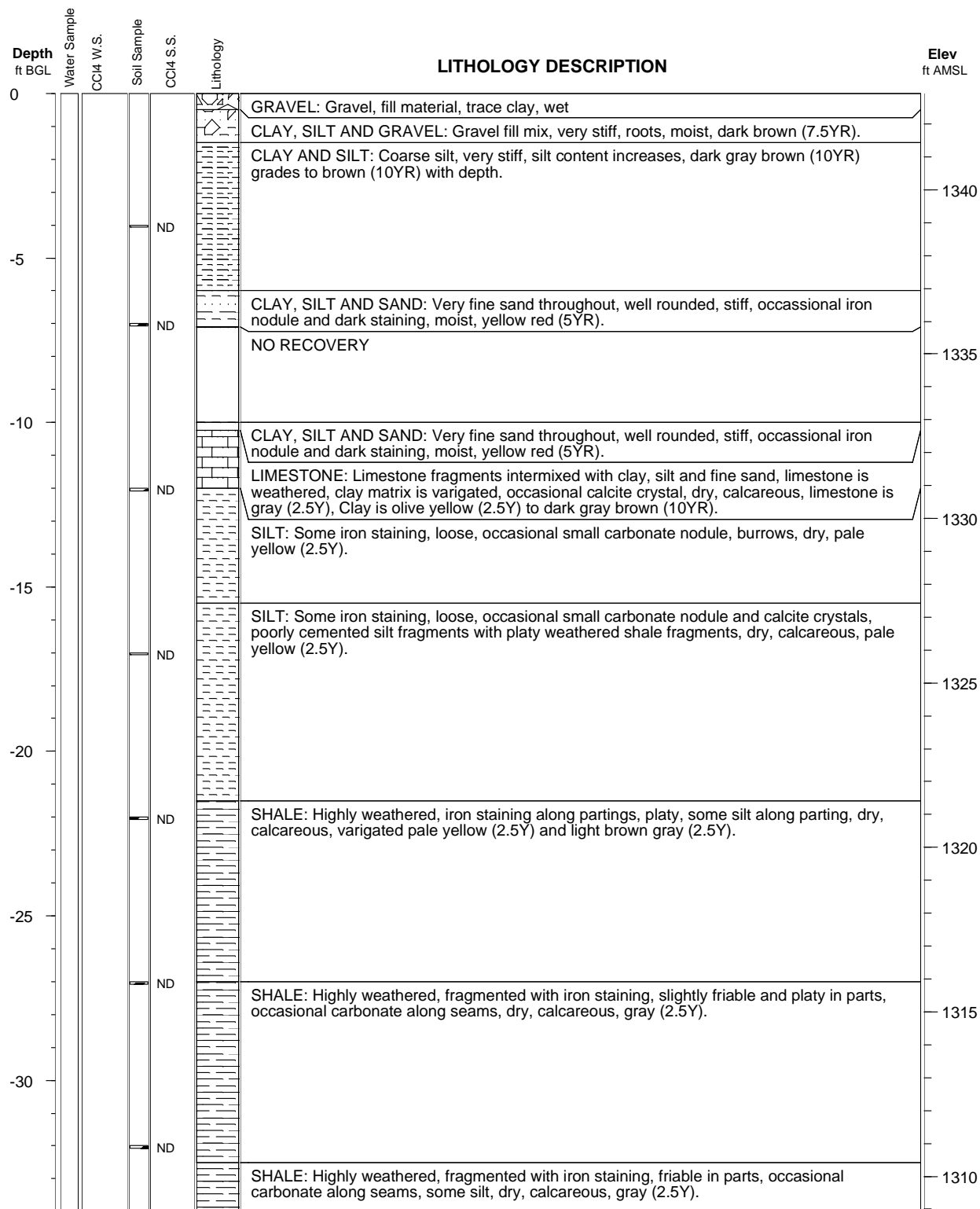
Boring ID: MW13

Project: Barnes

Elevation: 1342.923 ft.

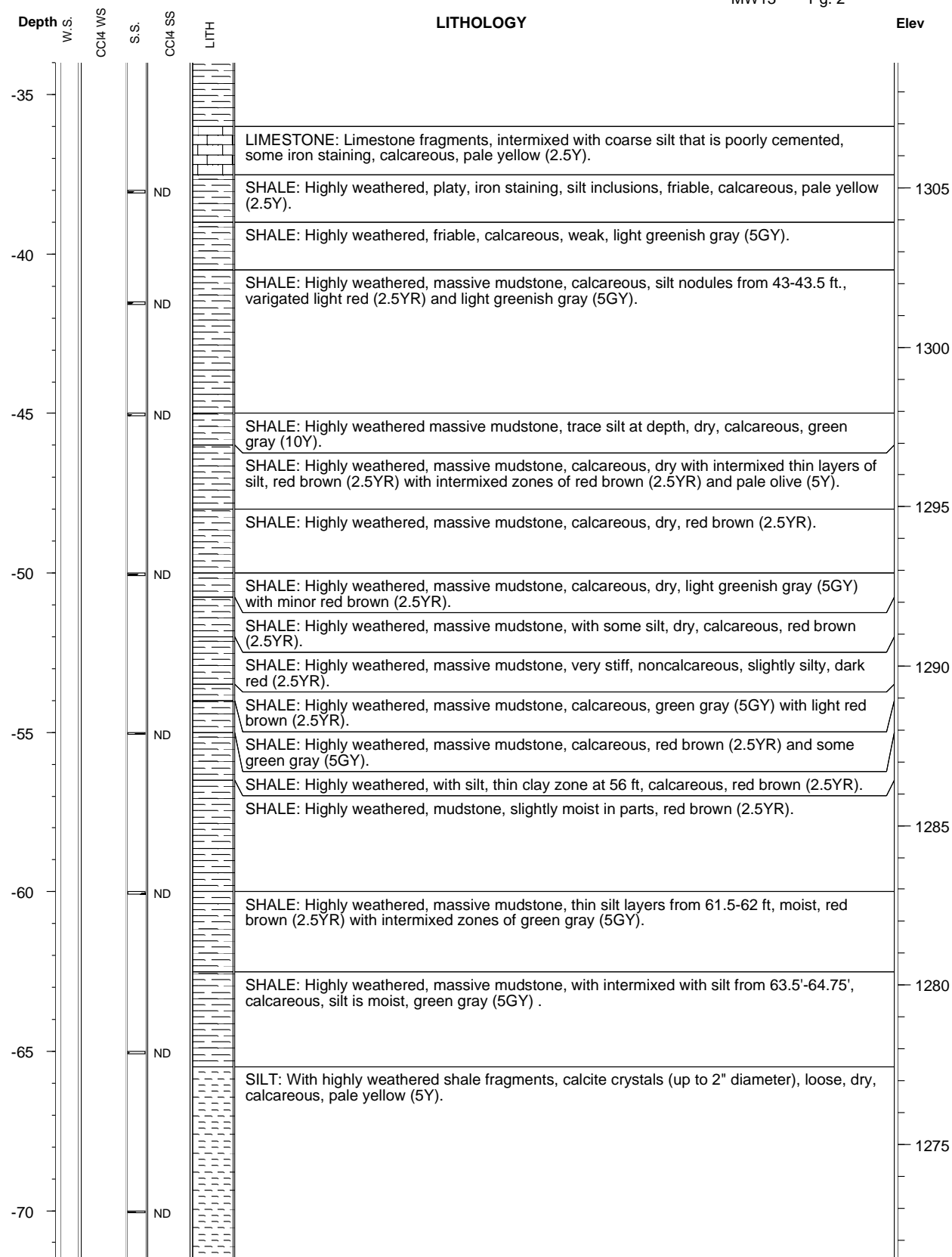
Geologist: Lisa Larsen

Depth: 145 ft. BGL

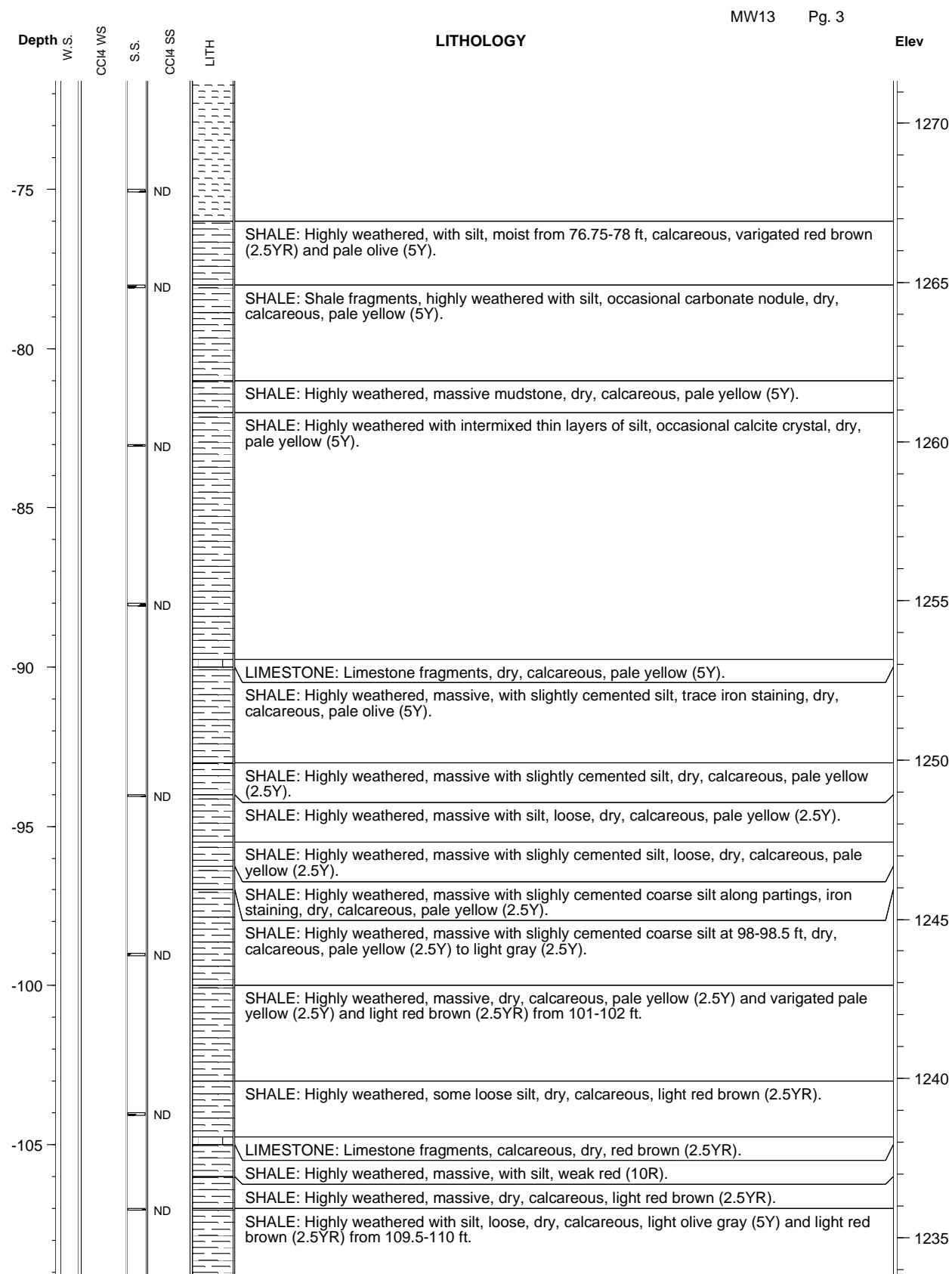


Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW13 Pg. 2

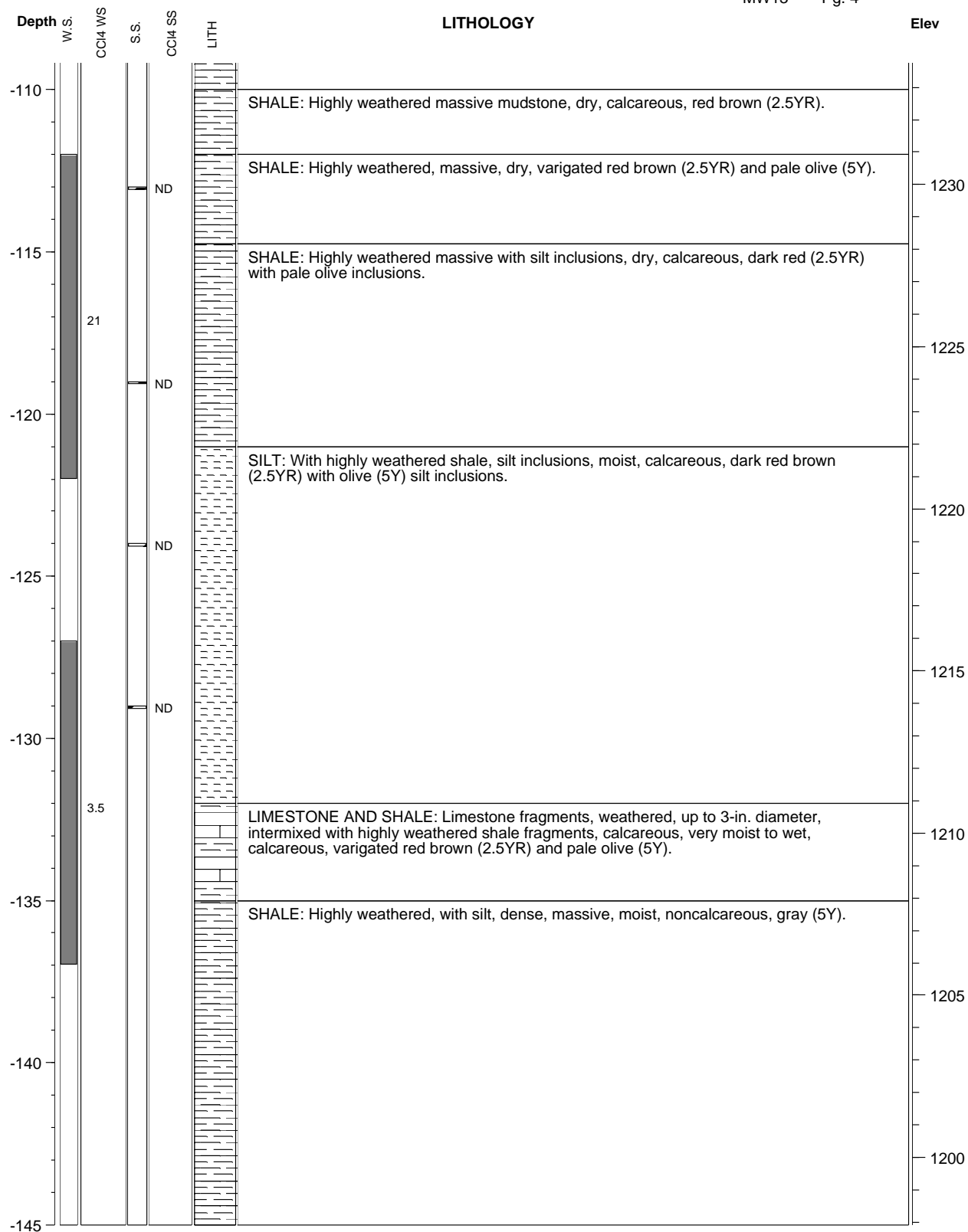


Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW13 Pg. 4



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

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Boring ID: MW14

Project: Barnes

Elevation: 1333.08 ft.

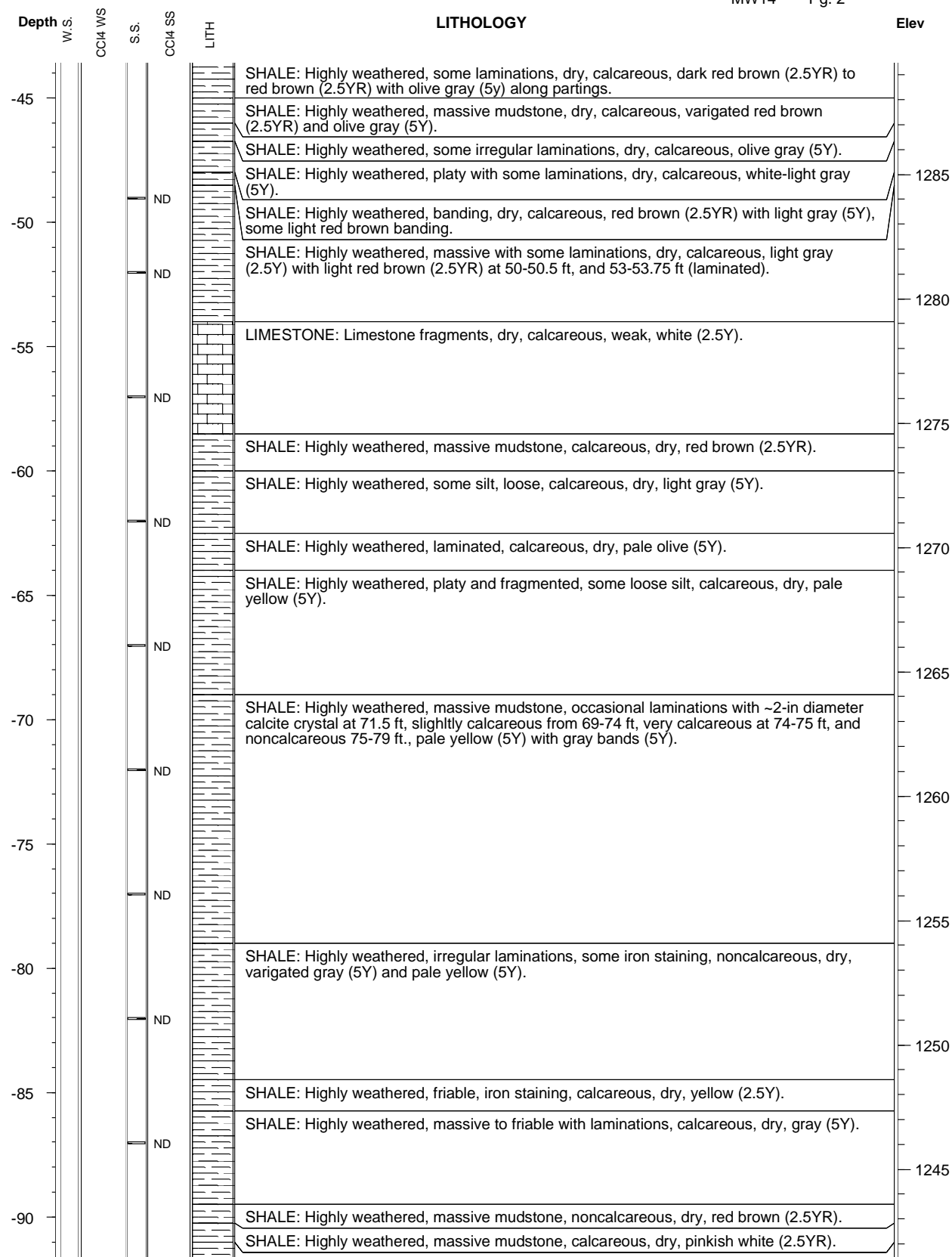
Geologist: Lisa Larsen

Depth: 135 ft. BGL

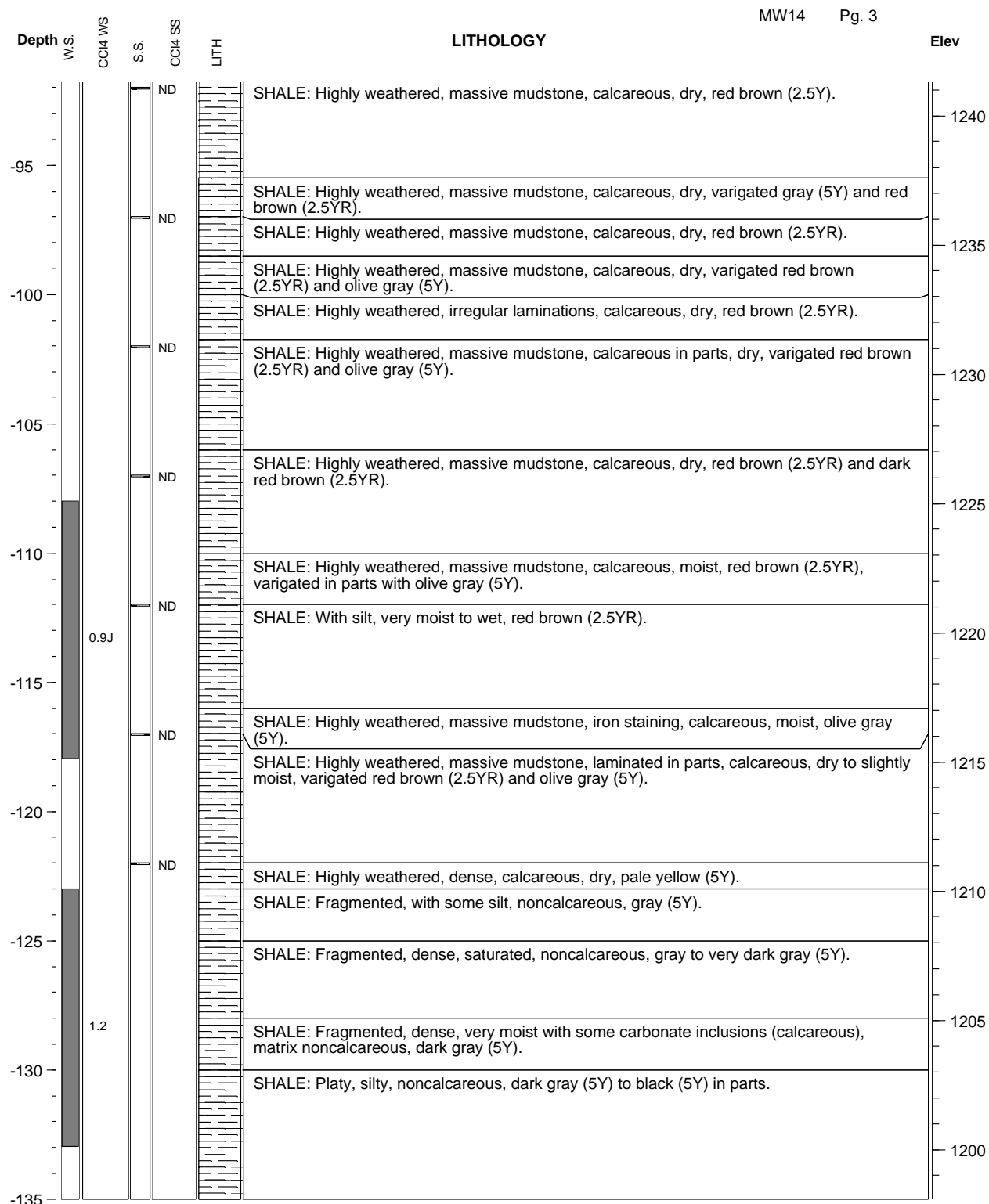
Depth ft BGL	Water Sample CCL4 W.S.	Soil Sample CCL4 S.S.	Lithology	Elev ft AMSL
0			CLAY AND SILT: Roots evident, some gravel fill at surface, some fine sand, moist, noncalcareous, dark brown (7.5YR), becoming dark red brown (2.5YR) at 2 ft.	
-3		ND	LIMESTONE: Limestone fragments, dry, calcareous, pale yellow (2.5Y).	1330
-5			SHALE: Highly weathered, loose, silty, some fragments, dry, calcareous, pale yellow (2.5Y).	
-8		ND		1325
-10			SHALE: Highly weathered, fragmented and platy, carbonate inclusions 11-12 ft, dry, calcareous, pale yellow (2.5Y).	
-12		ND		1320
-14			SHALE: Highly weathered, very friable, dry, calcareous, pale yellow (2.5Y) with bands of gray (2.5Y).	
-16			SHALE: Highly weathered, platy, dry, calcareous, gray (2.5Y) with pale yellow (2.5Y) laminations.	
-18		ND		1315
-20			SHALE: Highly weathered, platy, carbonate inclusions and calcite crystals, occasional iron stained bands, limestone fragments at 25.75 ft, dry, calcareous, pale yellow (2.5Y) with gray (2.5Y) bands.	
-22		ND		1310
-24			SHALE: Highly weathered, massive mudstone, iron staining, dry, calcareous, pale yellow (2.5Y).	
-26		ND		1305
-28			SHALE: Highly weathered, platy, iron staining, dry, calcareous, light gray (2.5Y).	
-30			SHALE: Highly weathered, irregular laminations to massive structure, silt inclusions, dry, calcareous, red brown (2.5YR) with pale olive (5Y) silt inclusions.	
-32		ND		1300
-34			SHALE: Highly weathered, massive mudstone, dry, calcareous, olive gray (5Y).	
-35			SHALE: Highly weathered, massive mudstone, dry, calcareous, dark red brown (2.5YR).	
-36		ND	SHALE: Highly weathered, massive mudstone, dry, calcareous, olive gray (5Y).	
-37			SHALE: Highly weathered, massive mudstone, dry, calcareous, red brown (2.5YR).	
-38			SHALE: Highly weathered, massive mudstone, dry, calcareous, variegated olive gray (5Y) and light red brown (2.5YR).	1295
-39			SHALE: Highly weathered, massive mudstone, dry, calcareous, red brown (2.5YR).	
-40		ND	SHALE: Highly weathered, massive mudstone, dry, calcareous, variegated olive gray (5Y) and red brown (2.5YR).	1290

Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW14 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

Argonne National Laboratory

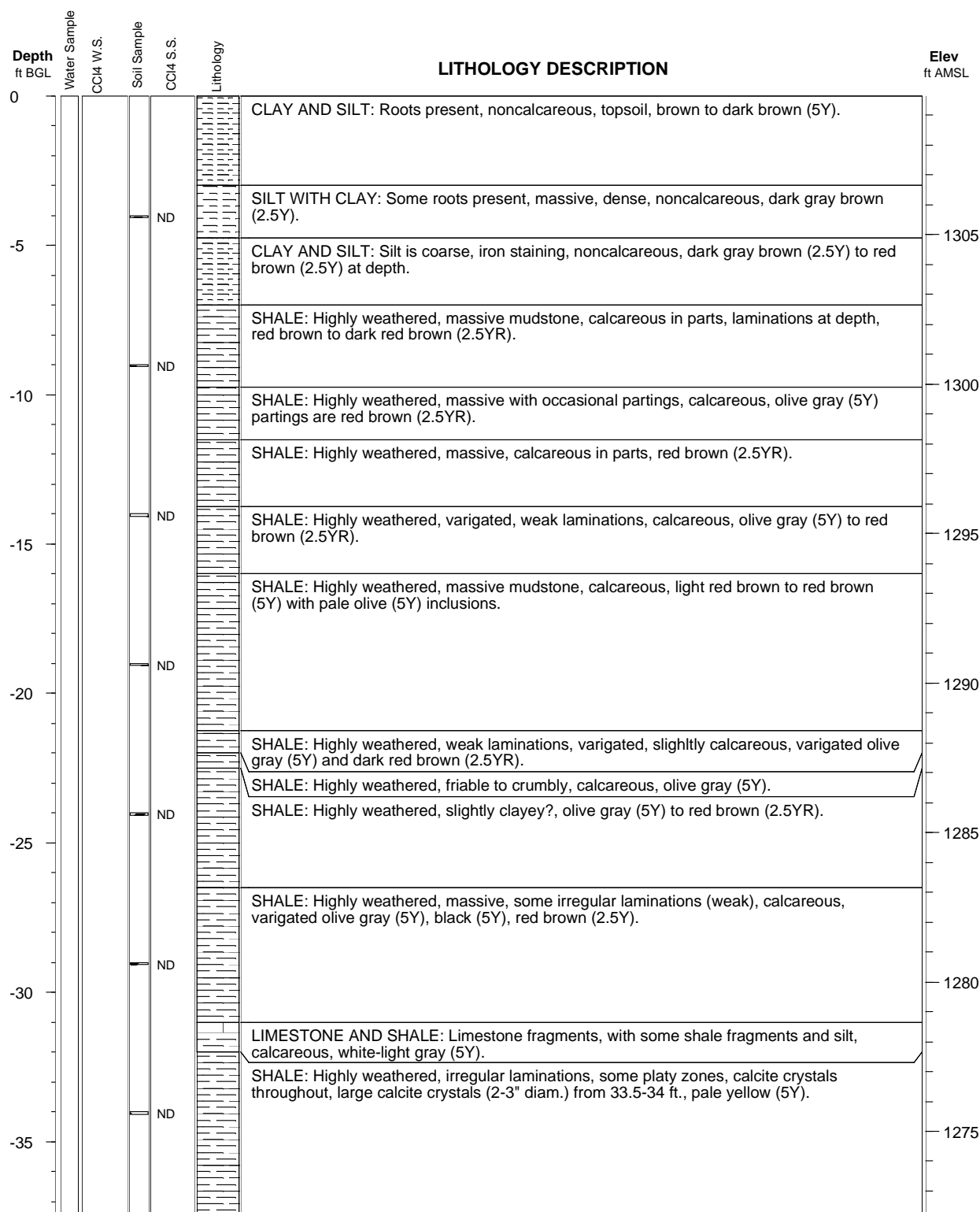
Boring ID: MW15

Project: Barnes

Elevation: 1309.65 ft.

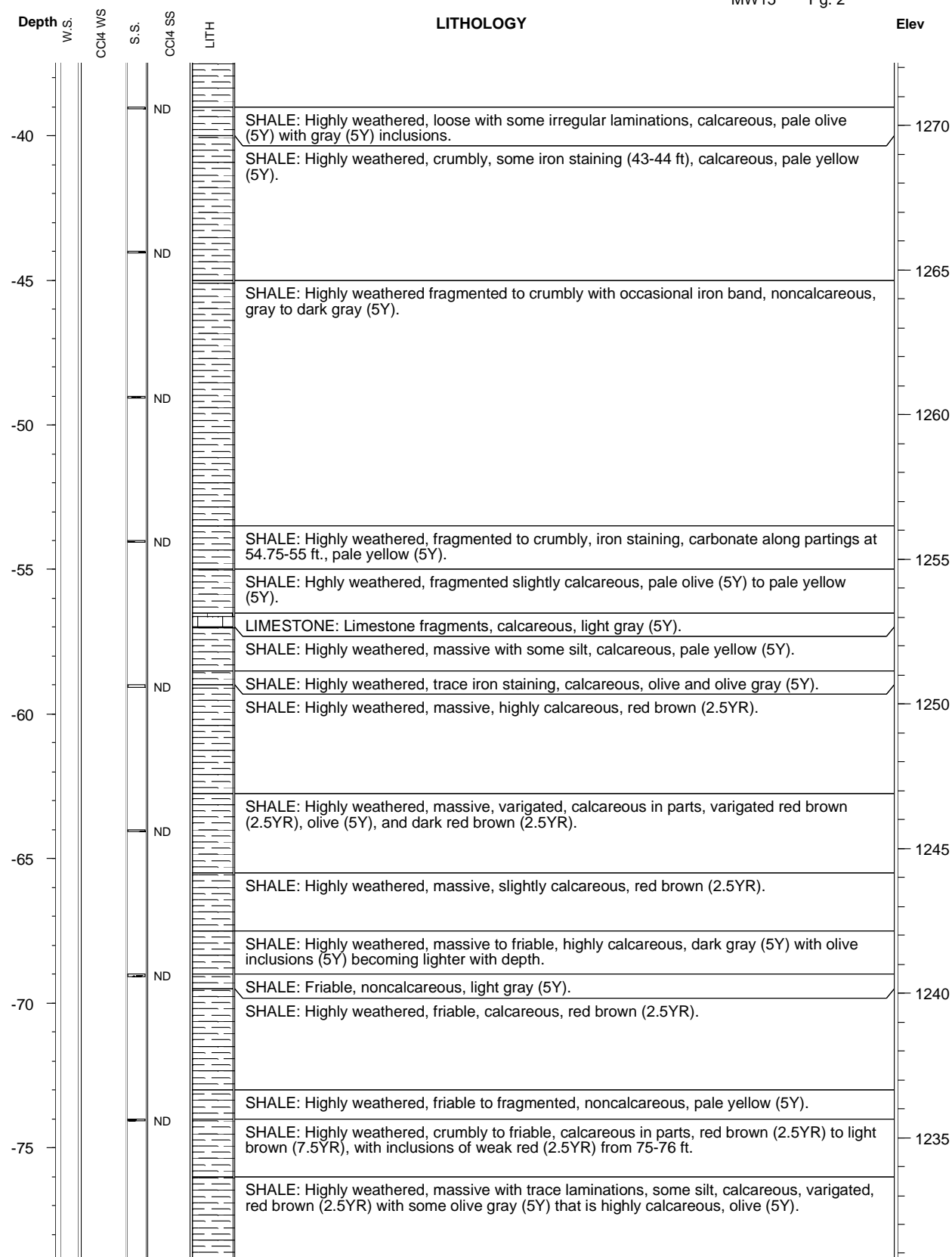
Geologist: Lisa Larsen

Depth: 115 ft. BGL

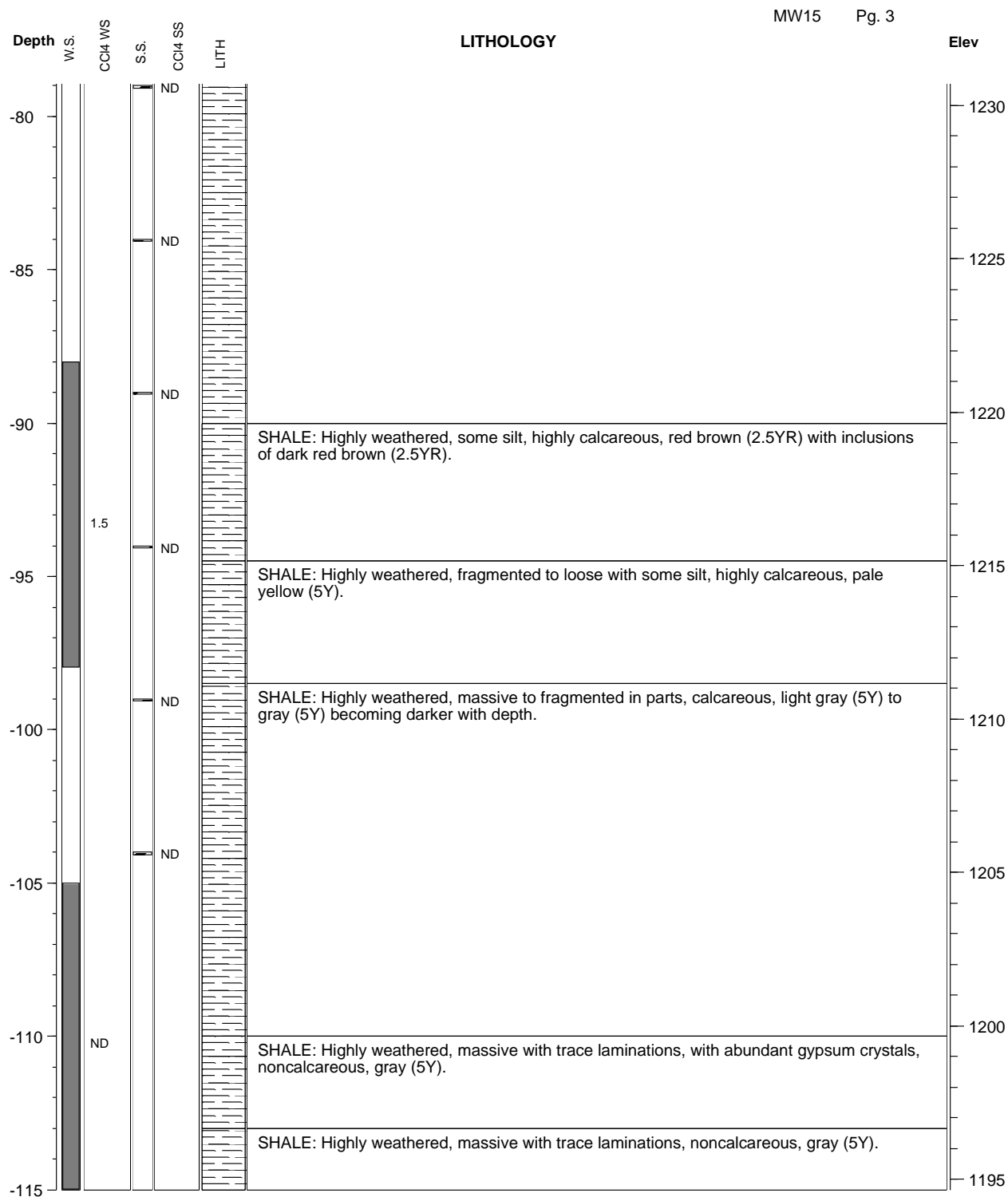


Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW15 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

Argonne National Laboratory

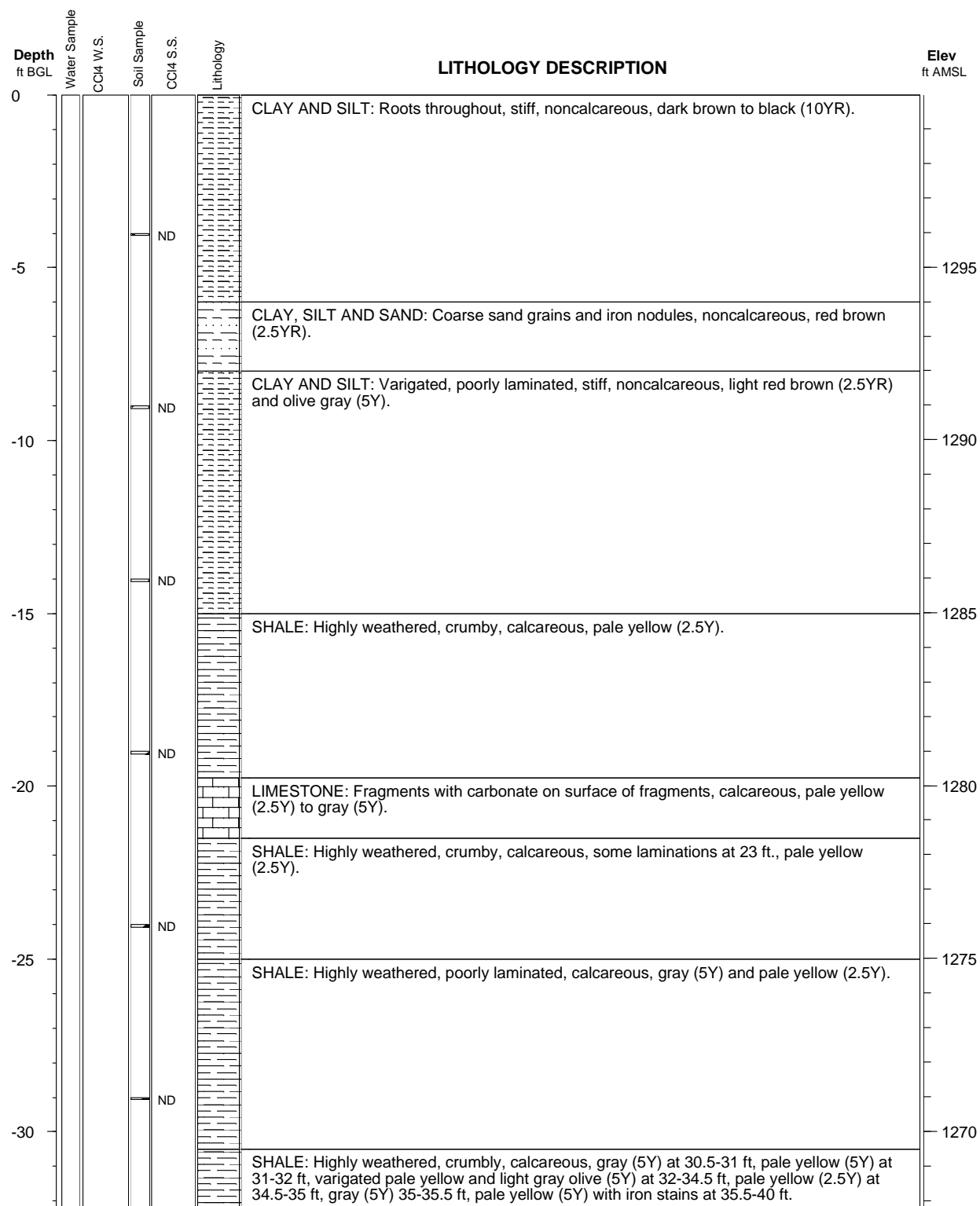
Boring ID: MW16

Project: Barnes

Elevation: 1299.98 ft.

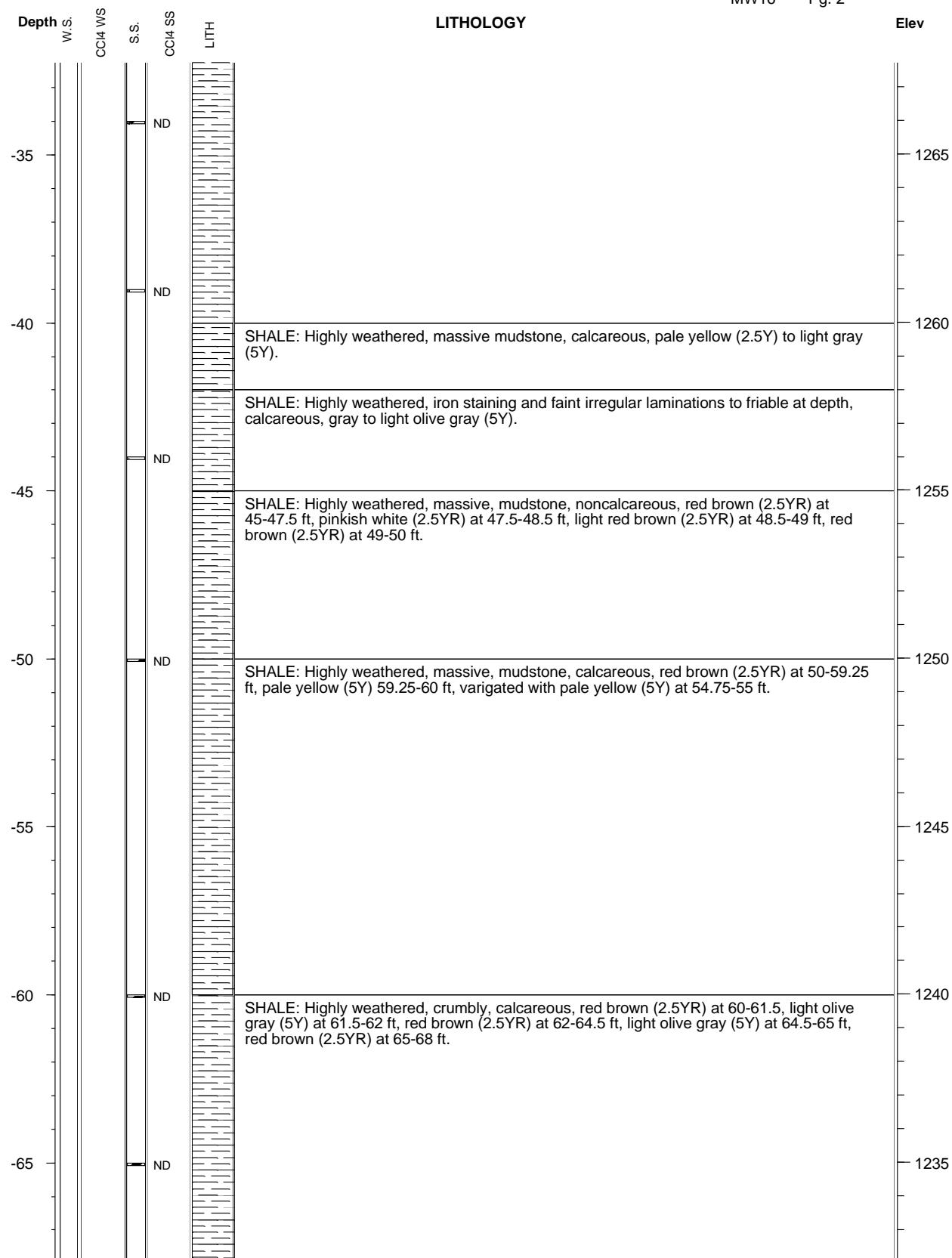
Geologist: Lisa Larsen

Depth: 102 ft. BGL



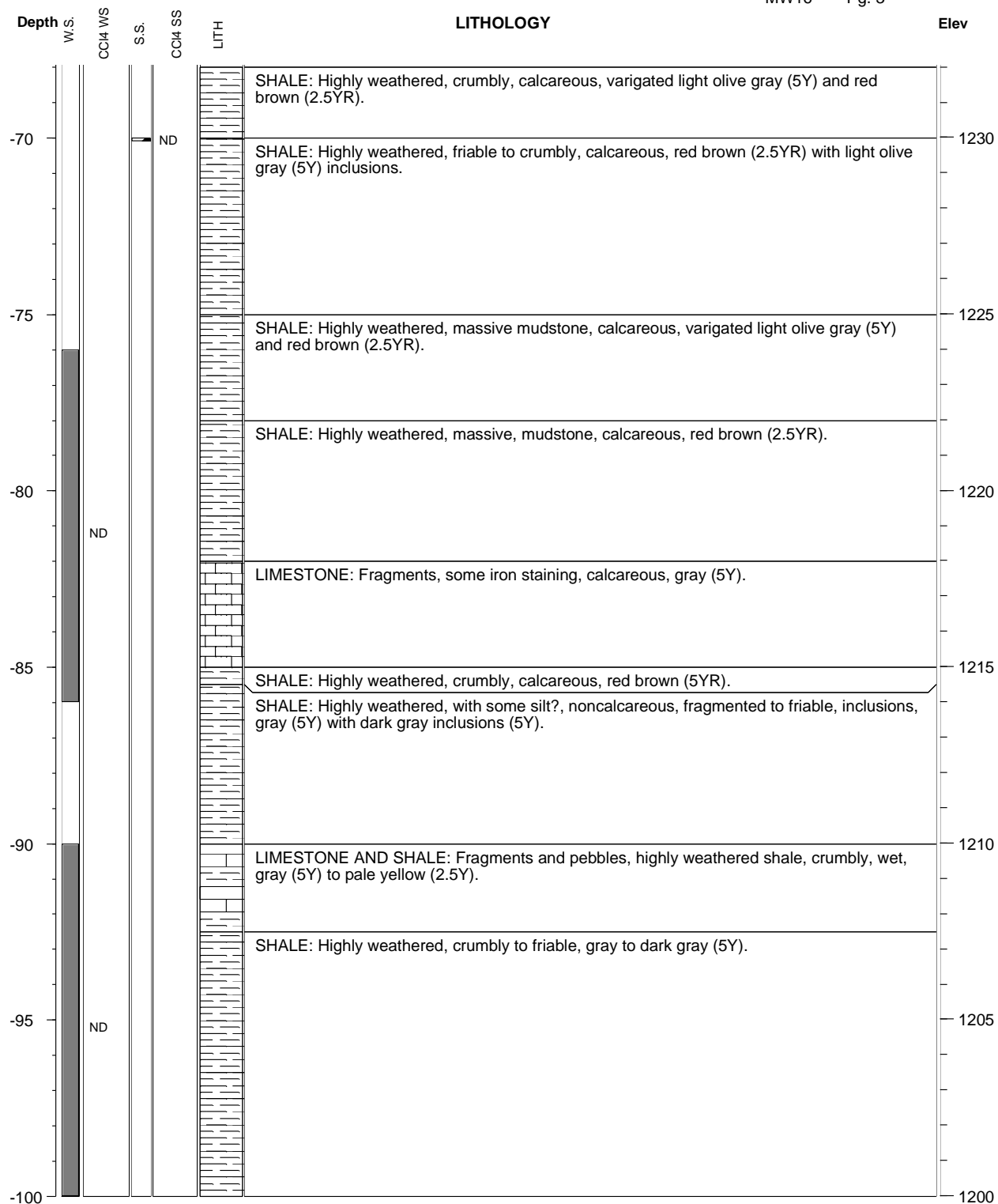
Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW16 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW16 Pg. 3



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

Argonne National Laboratory

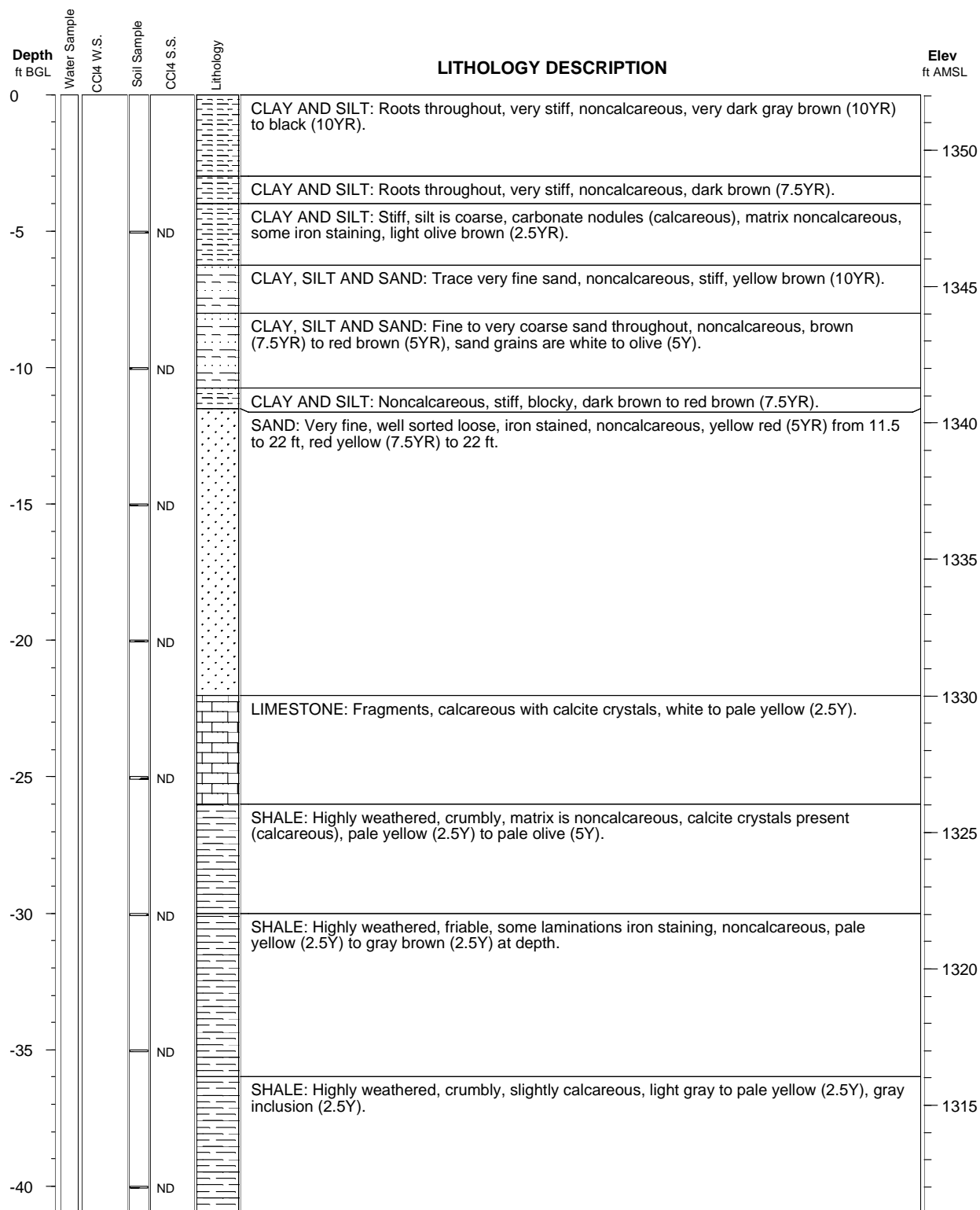
Boring ID: MW17

Project: Barnes

Elevation: 1352.032 ft.

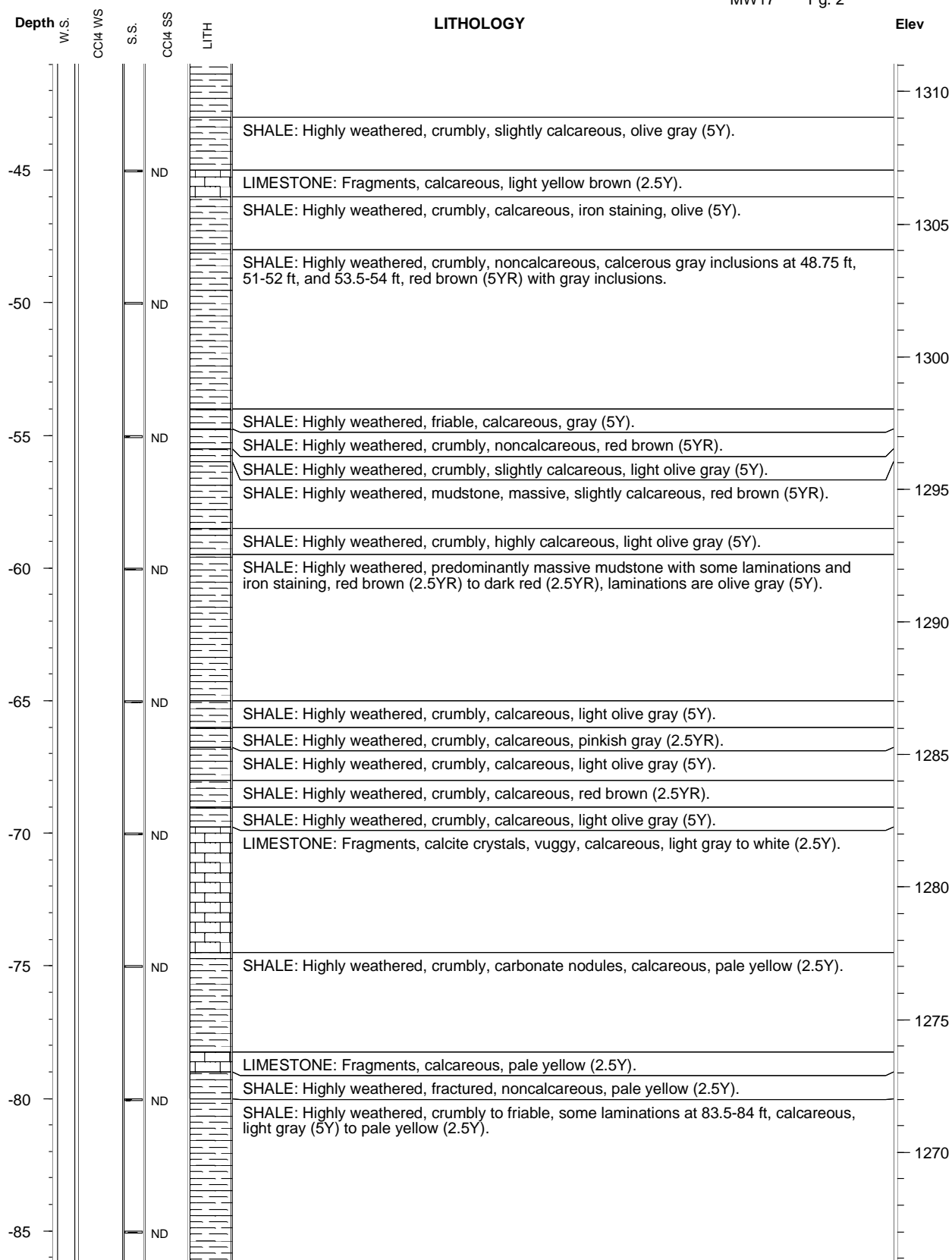
Geologist: Lisa Larsen

Depth: 130 ft. BGL



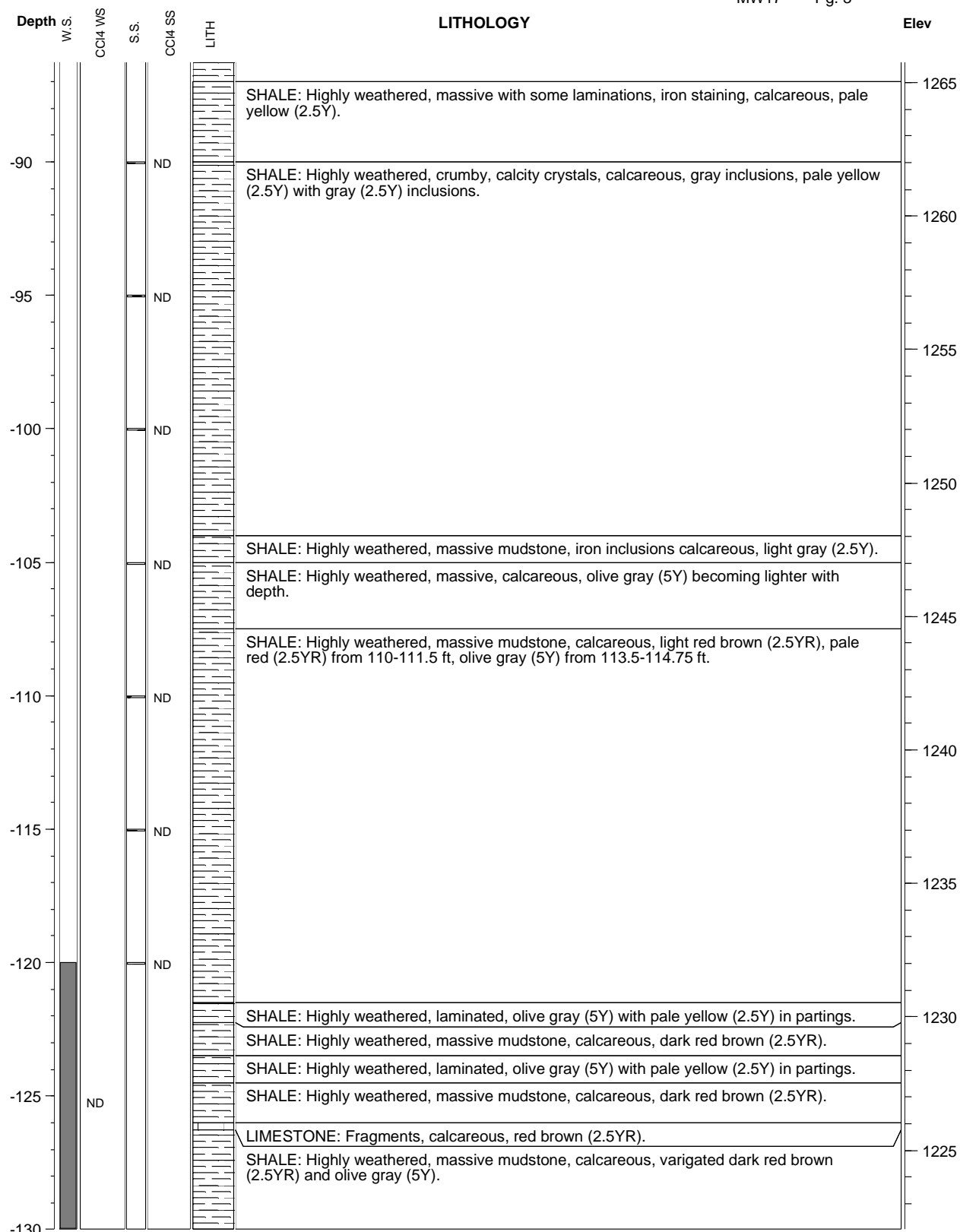
Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW17 Pg. 2



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

MW17 Pg. 3



Carbon tetrachloride in water sample = micrograms/L
Carbon tetrachloride in soil sample = micrograms/kg

Appendix D:

**Well Construction Diagrams and
Well Registration Forms (WWC-5)**

Piezometer MW-5: Barnes, KS

NW 1/4 of SW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 08/02/06

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co.
Model 678XA and a screened vent with a locking pipe plug and
padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount
(28" minimum). Sloped to prevent pooling of water, vegetation
around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in
the hole as required, mixed with clean fresh water to have a
minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush
mount and is capped with a (J-Plug) Morrison Brothers, Co.
Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010")
well screen were installed.

HOLE SIZE

The hole is 6" in diameter from 2' below ground level to T.D. and
grouted to the base of the flush mount.

GRAVEL / SAND PACK

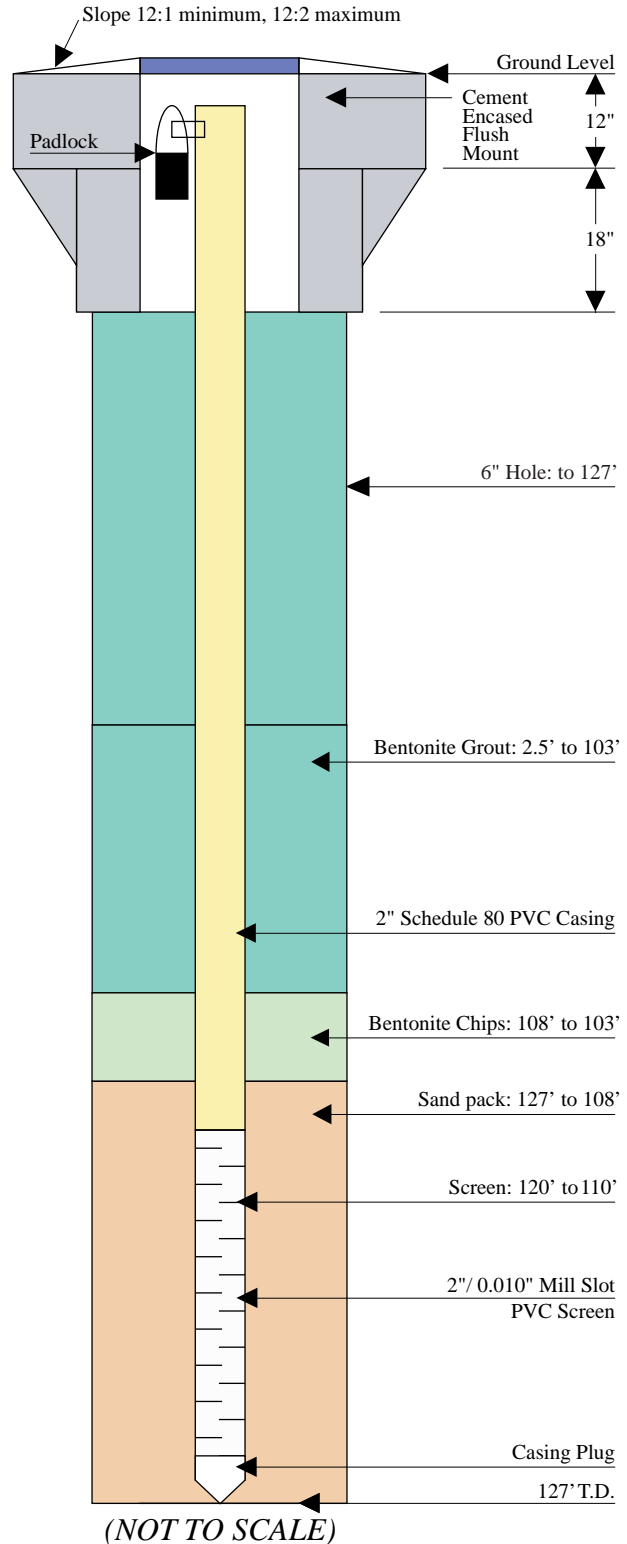
Gravel/sand pack size and gradation was determined based upon
the grain size and gradation of portion or portions of the aquifer
that were screened. Gravel pack was designed to stabilize the
aquifer material and permit the fine fraction to move into the well
during development. Gravel pack extends to the length and at least
1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water
well contractor as specified under the Kansas Department of
Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health
and Environment on form WWC-5 provided by that department.



[illegible]

Piezometer MW-6S & 6D: Barnes, KS

NW 1/4 of SW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/05/07

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

HOLE SIZE

The hole is 9" in diameter from ground level to T.D. and grouted from the base of the flush mount to the top of first bentonite seal.

GRAVEL / SAND PACK

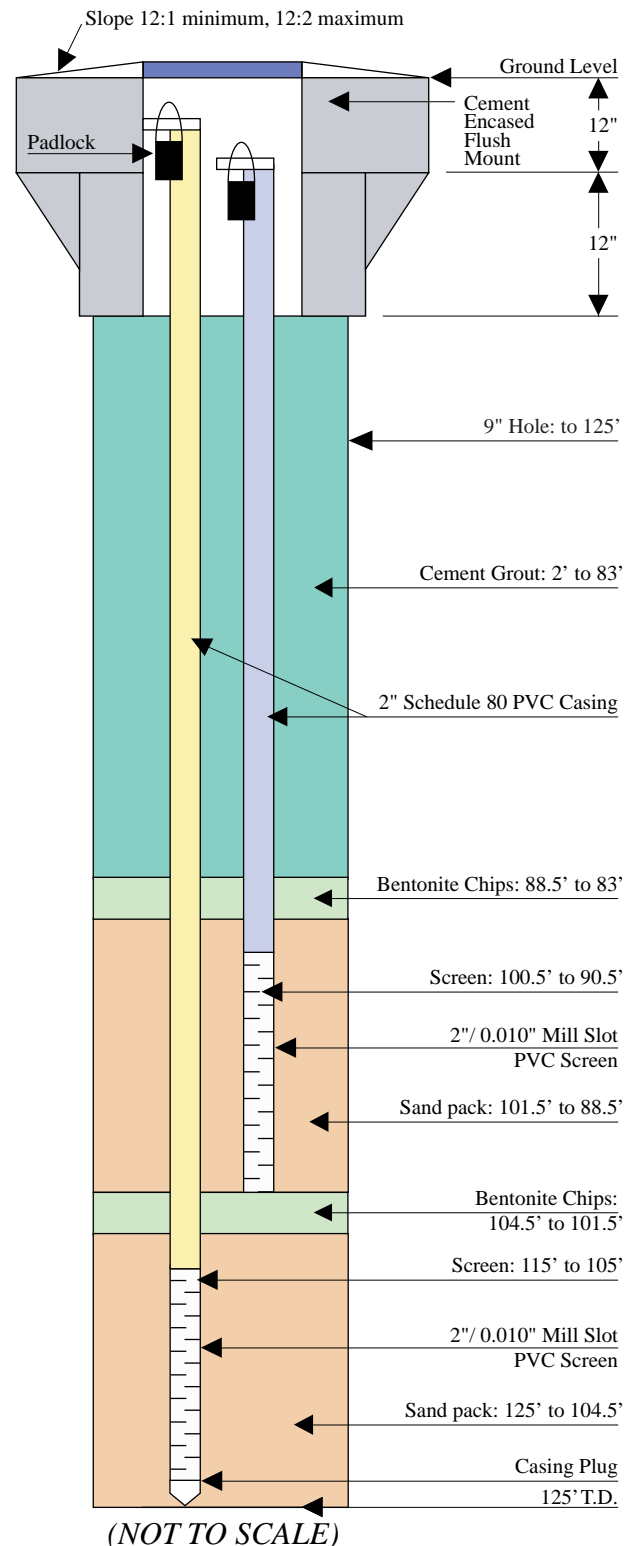
Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



[illegible]

WATER WELL RECORD		Form WWC-5		KSA 82a-1212		ID No. MW-601	
1 LOCATION OF WATER WELL:		Fraction		Section Number		Township Number	
County: <u>WASHINGTON</u>		<u>NW 1/4 SW 1/4 SE 1/4</u>		<u>9</u>		<u>T 4 S R 5 E</u>	
Distance and direction from nearest town or city street address of well if located within city? <u>80' EAST OF THE CORNER OF 2ND AVE AND EAST STREET</u>							
2 WATER WELL OWNER: <u>USDA/DC STOP 0513- ROOM 4725</u>							
RR#, St. Address, Box # : <u>1400 INDEPENDENCE AVE SW</u>				Board of Agriculture, Division of Water Resources			
City, State, ZIP Code : <u>WASHINGTON DC 20250</u>				Application Number: <u>N/A</u>			
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		4 DEPTH OF COMPLETED WELL		11.5		ft. ELEVATION:	
		Depth(s) Groundwater Encountered		1		ft. 2	
		WELL'S STATIC WATER LEVEL				ft. 3	
		Pump test data: Well water was				ft. after	
		Est. Yield		gpm: Well water was		ft. after	
WELL WATER TO BE USED AS:		5 Public water supply		8 Air conditioning		11 Injection well	
1 Domestic		3 Feedlot		6 Oil field water supply		9 Dewatering	
2 Irrigation		4 Industrial		7 Domestic (lawn & garden)		10 Monitoring well	
Was a chemical/bacteriological sample submitted to Department? Yes No <u>X</u> ; If yes, mo/day/yr sample was submitted Water Well Disinfected? Yes <u>(No)</u>							
5 TYPE OF BLANK CASING USED:		5 Wrought iron		8 Concrete tile		CASING JOINTS: Glued	
1 Steel		3 RMP (SR)		9 Other (specify below)		Clamped	
2 PVC		6 Asbestos-Cement				Welded	
3 RMP (SR)		7 Fiberglass				Threaded <u>FLUSH</u>	
Blank casing diameter		2		in. to		105	
Casing height above land surface		0		in., weight		lbs./ft. Wall thickness or gauge No.	
TYPE OF SCREEN OR PERFORATION MATERIAL:		5 Fiberglass		7 PVC		10 Asbestos-Cement	
1 Steel		3 Stainless Steel		8 RMP (SR)		11 Other (Specify)	
2 Brass		4 Galvanized Steel		9 ABS		12 None used (open hole)	
SCREEN OR PERFORATION OPENINGS ARE:		5 Gauzed wrapped		8 Saw cut		11 None (open hole)	
1 Continuous slot		3 Mill slot		9 Drilled holes			
2 Louvered shutter		4 Key punched		7 Torch cut		10 Other (specify)	
SCREEN-PERFORATED INTERVALS:		From		11.5		ft. to	
GRAVEL PACK INTERVALS:		From		12.5		ft. to	
		From		104.5		ft. to	
		From		101.5		ft. to	
		From		2		ft. to	
		From		0		ft. to	
6 GROUT MATERIAL:		1 Neat cement		2 Cement grout		3 Bentonite	
Grout Intervals: From		104.5		ft. to		101.5	
What is the nearest source of possible contamination:		1 Septic tank		4 Lateral lines		7 Pit privy	
		2 Sewer lines		5 Cess pool		8 Sewage lagoon	
		3 Watertight sewer lines		6 Seepage pit		9 Feedyard	
Direction from well? <u>SOUTH</u>		10 Livestock pens		14 Abandoned water well		15 Oil well/Gas well	
		11 Fuel storage		12 Fertilizer storage		16 Other (specify below)	
		13 Insecticide storage		How many feet? <u>125</u>			
FROM		TO		LITHOLOGIC LOG		FROM	
0		9		brn inf SILTY SAND		TO	
9		125		weathered SHALE BEDROCK		PLUGGING INTERVALS	
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>03/05/07</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No <u>658</u> This Water Well Record was completed on (mo/day/yr) <u>03/01/07</u> under the business name of <u>BOB LONKHEAR ENH</u> by (signature) <u>[Signature]</u>							
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.							

Piezometer MW-7: Barnes, KS

NW 1/4 of SW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 08/06/06

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co.
Model 678XA and a screened vent with a locking pipe plug and
padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount
(28" minimum). Sloped to prevent pooling of water, vegetation
around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in
the hole as required, mixed with clean fresh water to have a
minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush
mount and is capped with a (J-Plug) Morrison Brothers, Co.
Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010")
well screen were installed.

HOLE SIZE

The hole is 6" in diameter from 2' below ground level to T.D. and
grouted to the base of the flush mount.

GRAVEL / SAND PACK

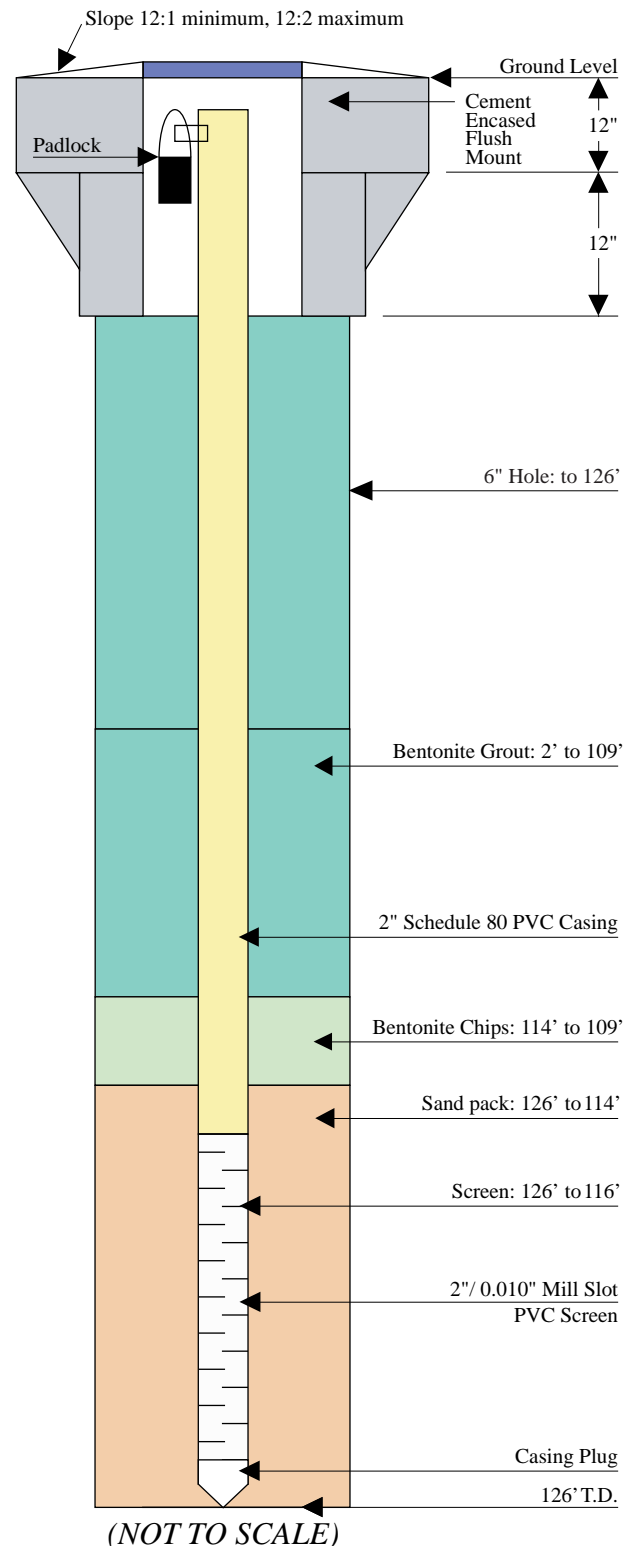
Gravel/sand pack size and gradation was determined based upon
the grain size and gradation of portion or portions of the aquifer
that were screened. Gravel pack was designed to stabilize the
aquifer material and permit the fine fraction to move into the well
during development. Gravel pack extends to the length and at least
1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water
well contractor as specified under the Kansas Department of
Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health
and Environment on form WWC-5 provided by that department.



[illegible]

Piezometer MW-8: Barnes, KS

NW 1/4 of SW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 08/05/06

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co.
Model 678XA and a screened vent with a locking pipe plug and
padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount
(28" minimum). Sloped to prevent pooling of water, vegetation
around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in
the hole as required, mixed with clean fresh water to have a
minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush
mount and is capped with a (J-Plug) Morrison Brothers, Co.
Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010")
well screen were installed.

HOLE SIZE

The hole is 6" in diameter from 2' below ground level to T.D. and
grouted to the base of the flush mount.

GRAVEL / SAND PACK

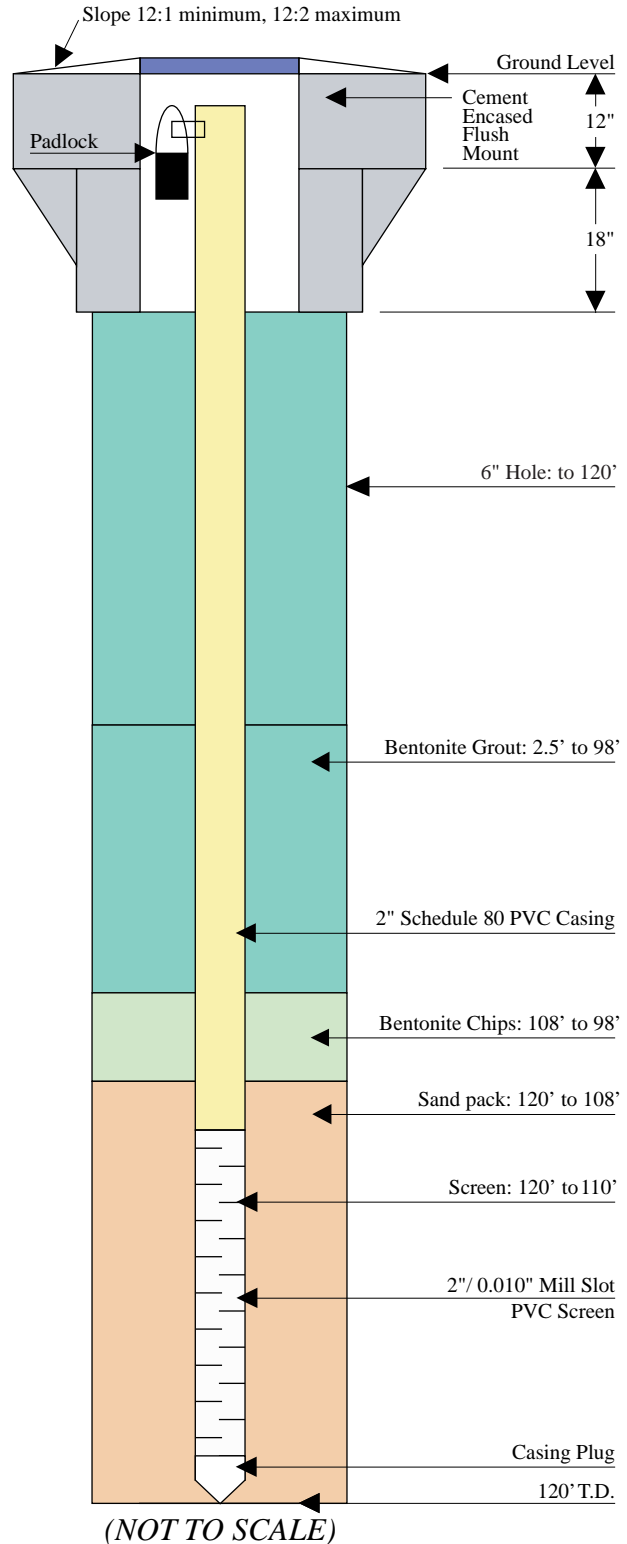
Gravel/sand pack size and gradation was determined based upon
the grain size and gradation of portion or portions of the aquifer
that were screened. Gravel pack was designed to stabilize the
aquifer material and permit the fine fraction to move into the well
during development. Gravel pack extends to the length and at least
1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water
well contractor as specified under the Kansas Department of
Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health
and Environment on form WWC-5 provided by that department.



WATER WELL RECORD		Form WWC-5	KSA 82a-1212	ID No.	<u>NW-8</u>
1 LOCATION OF WATER WELL:		County: <u>WASHINGTON</u>	Fraction: <u>NW 1/4 SW 1/4 SE 1/4</u>	Section Number: <u>9</u>	Township Number: <u>T 4 S</u> Range Number: <u>R 5 EW</u>
Distance and direction from nearest town or city street address of well if located within city? <u>35 FEET NORTH OF AND AVE</u>					
2 WATER WELL OWNER: <u>USDA/CDC</u>		RR#, St. Address, Box #: <u>STOP 0513 - ROOM 4725</u> City, State, ZIP Code: <u>1408 INDEPENDENCE AVE SW WASHINGTON DC 20025</u>			
		Board of Agriculture, Division of Water Resources Application Number: <u>N/A</u>			
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		4 DEPTH OF COMPLETED WELL: <u>120</u> ft. ELEVATION: _____			
		Depth(s) Groundwater Encountered: 1 _____ ft. 2 <u>109</u> ft. 3 _____ ft.			
		WELL'S STATIC WATER LEVEL: _____ ft. below land surface measured on mo/day/yr			
		Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm			
		Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm			
		WELL WATER TO BE USED AS: 1 Domestic 3 Feedlot 5 Public water supply 8 Air conditioning 11 Injection well 2 Irrigation 4 Industrial 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 7 Domestic (lawn & garden) ⑩ Monitoring well			
		Was a chemical/bacteriological sample submitted to Department? Yes _____ No <u>X</u> ; If yes, mo/day/yrs sample was submitted _____ Water Well Disinfected? Yes _____ No <u>(No)</u>			
5 TYPE OF BLANK CASING USED:		CASING JOINTS: Glued _____ Clamped _____			
1 Steel 3 RMP (SR) ② PVC 4 ABS		5 Wrought iron 8 Concrete tile 6 Asbestos-Cement 9 Other (specify below) 7 Fiberglass			
Blank casing diameter: <u>2</u> in. to <u>110</u> ft. Dia _____ in. to _____ ft. Dia _____ in. to _____ ft.		Casing height above land surface _____ in., weight _____ lbs./ft. Wall thickness or gauge No. <u>SEN 80</u>			
TYPE OF SCREEN OR PERFORATION MATERIAL:		① PVC 10 Asbestos-Cement 1 Steel 8 RMP (SR) 2 Brass 4 Galvanized Steel 6 Concrete tile 9 ABS 11 Other (Specify) _____ 12 None used (open hole)			
SCREEN OR PERFORATION OPENINGS ARE:		5 Gauzed wrapped 8 Saw cut 11 None (open hole) 1 Continuous slot ③ Mill slot 9 Drilled holes 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) _____			
SCREEN-PERFORATED INTERVALS: From <u>120</u> ft. to <u>110</u> ft., From _____ ft. to _____ ft.					
GRAVEL PACK INTERVALS: From <u>120</u> ft. to <u>108</u> ft., From _____ ft. to _____ ft.					
6 GROUT MATERIAL: ① Neat cement 2 Cement grout ③ Bentonite ④ Other <u>CONCRETE</u>					
Grout intervals: From <u>108</u> ft. to <u>98</u> ft., From <u>98</u> ft. to <u>2.5</u> ft., From <u>2.5</u> ft. to <u>0</u> ft.					
What is the nearest source of possible contamination:		10 Livestock pens 14 Abandoned water well ① Septic tank 4 Lateral lines 7 Pit privy 15 Fuel storage 15 Oil well/Gas well 2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below) 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage			
Direction from well?		How many feet?			
FROM TO LITHOLOGIC LOG FROM TO PLUGGING INTERVALS					
0	10	BROWN SILT			
10	110	BROWN CLAY WISHALE			
110	119	BROWN SAND			
119	120	LIMESTONE			
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ① constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>08/25/06</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No. <u>658</u> This Water Well Record was completed on (mo/day/yr) <u>10/17/06</u> under the business name of <u>BOBERT LONGHEAR COMPANY</u> by (signature) <u>Michael May</u>					
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1387. Telephone 785-236-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.					

Piezometer MW-9: Barnes, KS

NW 1/4 of SW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 08/02/06

WELL HEAD PROTECTION

8" PVC Schedule 40 stick-up well completion and locking top with a padlock. Top of casing is fitted with a screened vent J-plug and padlocked.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the stick-up cover (24" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the stick-up and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

HOLE SIZE

The hole is 6" in diameter from 2' below ground level to T.D. and grouted to the base of the stick-up cover.

GRAVEL / SAND PACK

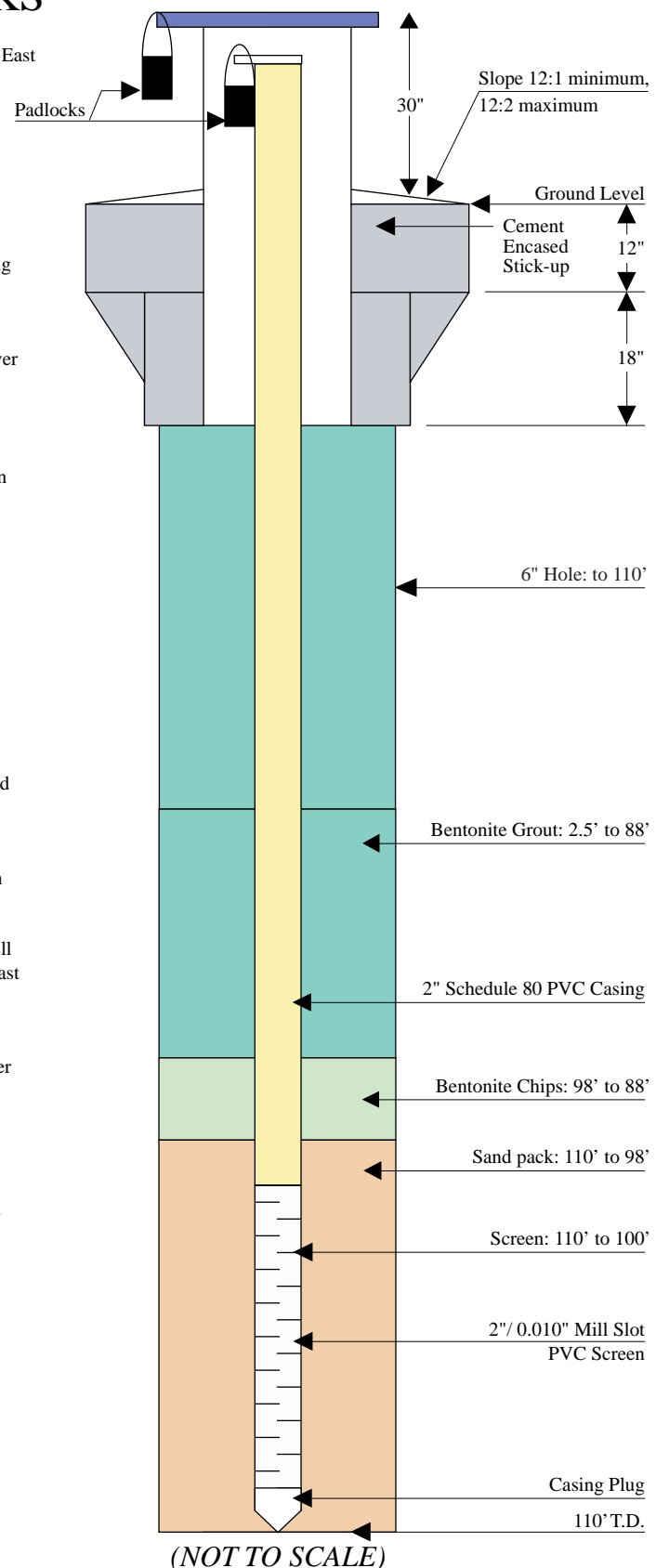
Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



[illegible]

Piezometer MW-10S & 10D: Barnes, KS

NW 1/4 of SW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 08/17/06

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co.
Model 678XA and a screened vent with a locking pipe plug and
padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount
(28" minimum). Sloped to prevent pooling of water, vegetation
around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in
the hole as required, mixed with clean fresh water to have a
minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush
mount and is capped with a (J-Plug) Morrison Brothers, Co.
Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010")
well screen were installed.

HOLE SIZE

The hole is 9" in diameter from ground level to T.D. and grouted
from the base of the flush mount to the top of first bentonite seal.

GRAVEL / SAND PACK

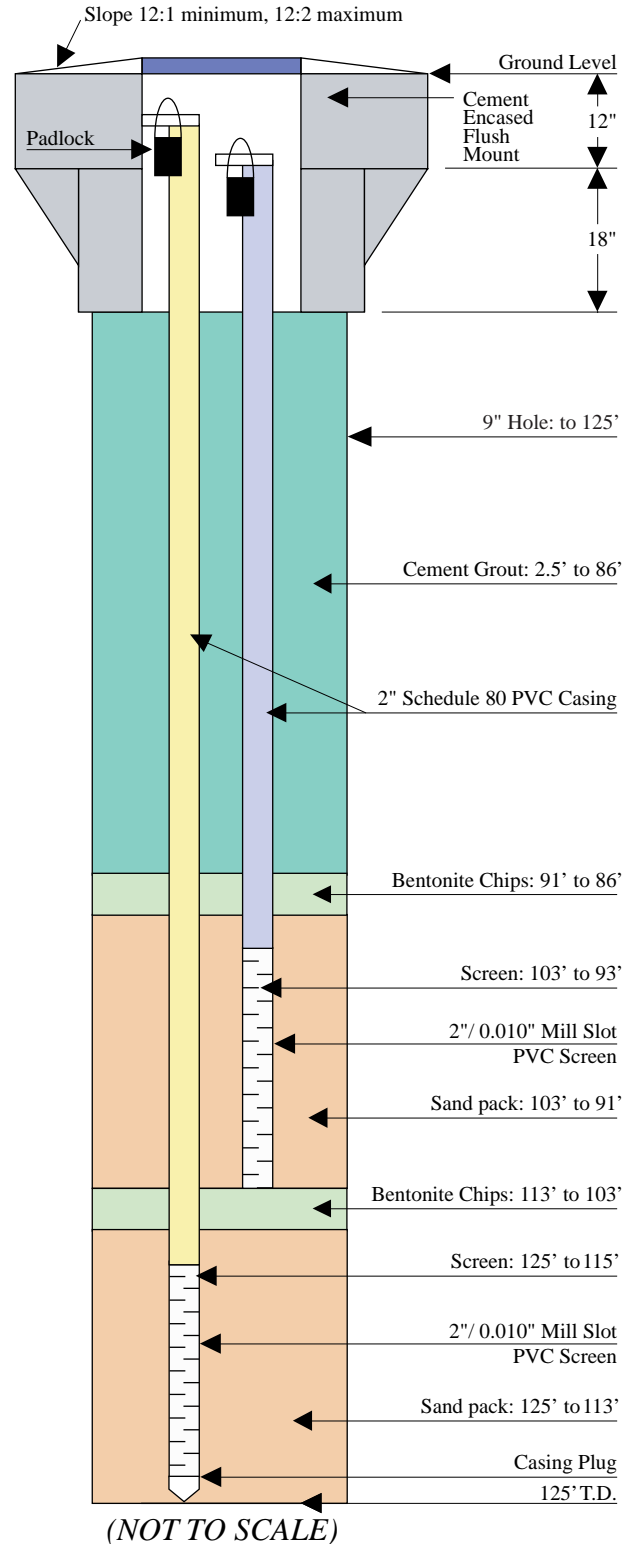
Gravel/sand pack size and gradation was determined based upon
the grain size and gradation of portion or portions of the aquifer
that were screened. Gravel pack was designed to stabilize the
aquifer material and permit the fine fraction to move into the well
during development. Gravel pack extends to the length and at least
1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water
well contractor as specified under the Kansas Department of
Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health
and Environment on form WWC-5 provided by that department.



[illegible]

[illegible]

NE 1/4 of SE 1/4 of SW 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 09/06/06

12" Morrison Brothers, Co. Model 418XA flush mount cover. Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

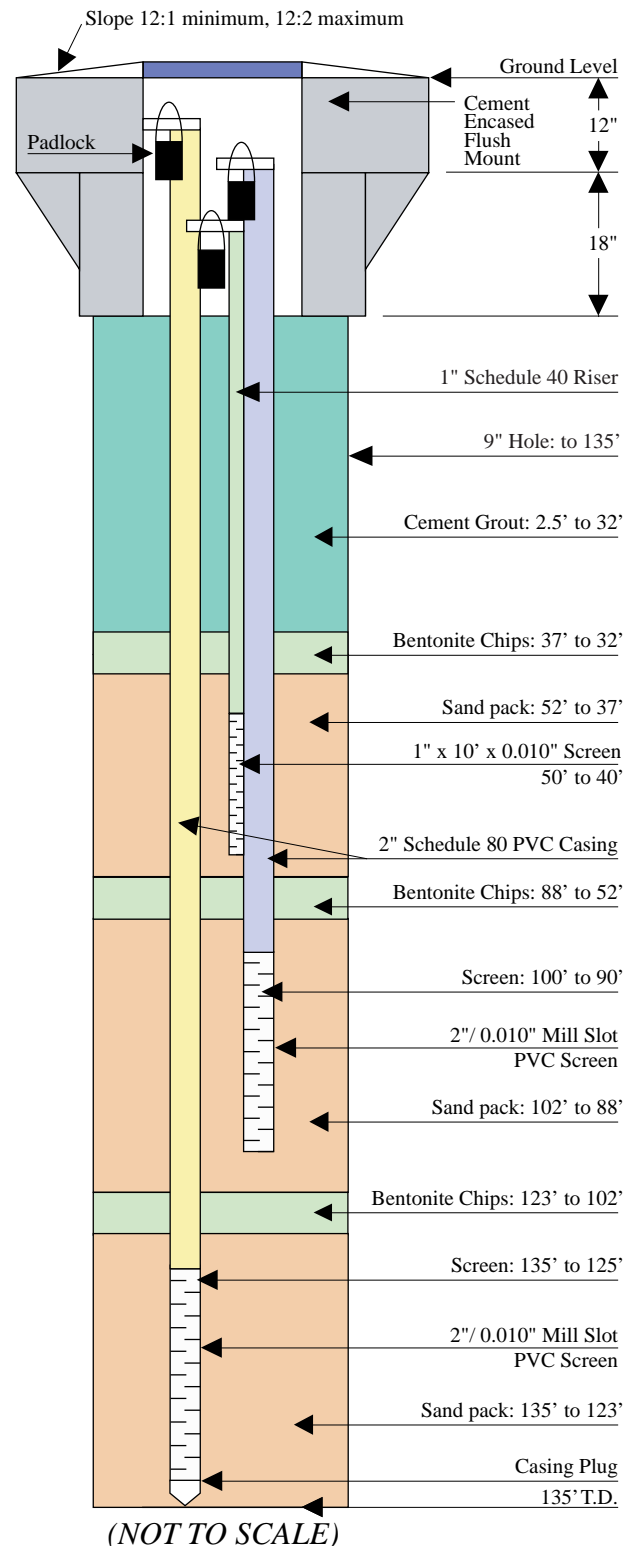
Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

The hole is 9" in diameter from ground level to T.D. and grouted from the base of the flush mount to the top of first bentonite seal.

Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. MD-113

1 LOCATION OF WATER WELL: Fraction NE 1/4 SE 1/4 SW 1/4 Section Number 9 Township Number T 4 S Range Number R 5 EW
 County: WASHINGTON
 Distance and direction from nearest town or city street address of well if located within city?
120 FEET EAST OF MAIN STREET

2 WATER WELL OWNER: USDA/CCC
 RR#, St. Address, Box # : STOP 0513-ROOM 4725
 City, State, ZIP Code : 1400 INDEPENDENCE AVE SW WASHINGTON DC 20250
 Board of Agriculture, Division of Water Resources
 Application Number: N/A

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

 4 DEPTH OF COMPLETED WELL 50 ft. ELEVATION: _____
 Depth(s) Groundwater Encountered 1 _____ ft. 2 _____ ft. 3 _____ ft.
 WELL'S STATIC WATER LEVEL _____ ft. below land surface measured on mo/day/yr _____
 Pump test data: Well water was _____ hours pumping _____ gpm
 Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
 WELL WATER TO BE USED AS:
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well _____
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No X; If yes, mo/day/yr sample was submitted _____
 Water Well Disinfected? Yes _____ No (No)

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____
2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____
 7 Fiberglass _____ Threaded FLUSH
 Blank casing diameter _____ in. to _____ ft. Dia _____ in. to _____ ft. Dia _____ in. to _____ ft.
 Casing height above land surface _____ in. weight _____ lbs./ft. Wall thickness or gauge No. SCH 80
 TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless Steel 5 Fiberglass 6 PVC 10 Asbestos-Cement
 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RMP (SR) 11 Other (Specify) _____
 9 ABS 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify) _____
 SCREEN-PERFORATED INTERVALS: From 30 ft. to 40 ft. From _____ ft. to _____ ft.
 From _____ ft. to _____ ft. From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From 32 ft. to 37 ft. From _____ ft. to _____ ft.
 From _____ ft. to _____ ft. From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other CONCRETE
 Grout Intervals: From 37 ft. to 32 ft. From 32 ft. to 25 ft. From 25 ft. to 0 ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below) _____
 Direction from well? _____ How many feet? _____

FROM TO LITHOLOGIC LOG FROM TO PLUGGING INTERVALS
0 3 TOPSOIL
3 40 BRN CLAY W/SHALE
40 50 BRN SILT

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was 1 constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 09/10/10 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No LS8 This Water Well Record was completed on (mo/day/year) 10/17/10
 under the business name of BOART LONGYEAR COMPANY by (signature) mill/mj

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. <u>MW-11M</u>					
1 LOCATION OF WATER WELL:		Fraction	Section Number	Township Number	Range Number
County: <u>WASHINGTON</u>		<u>NE 1/4 SE 1/4 SW 1/4</u>	<u>9</u>	<u>T 4 S</u>	<u>R 5 E</u>
Distance and direction from nearest town or city street address of well if located within city?					
<u>120 FEET EAST OF MAIN STREET</u>					
2 WATER WELL OWNER: <u>USDA/CCC</u>					
RR#, St. Address, Box # : <u>STOP 0513- Room 4725</u>			Board of Agriculture, Division of Water Resources		
City, State, ZIP Code : <u>WASHINGTON DC 20250</u>			Application Number: <u>N/A</u>		
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		4 DEPTH OF COMPLETED WELL <u>100</u> ft. ELEVATION:			
		Depth(s) Groundwater Encountered 1 ft. 2 ft. 3 ft.			
		WELL'S STATIC WATER LEVEL ft. below land surface measured on mo/day/yr			
		Pump test data: Well water was ft. after hours pumping gpm			
		Est. Yield gpm: Well water was ft. after hours pumping gpm			
		WELL WATER TO BE USED AS:			
		1 Domestic 3 Feedlot 5 Public water supply 8 Air conditioning 11 Injection well 2 Irrigation 4 Industrial 6 Oil field water supply 9 Dewatering 12 Other (Specify below)			
		7 Domestic (lawn & garden) 10 Monitoring well			
		Was a chemical/bacteriological sample submitted to Department? Yes No <u>X</u> If yes, mo/day/yr sample was submitted			
		Water Well Disinfected? Yes No <u>(No)</u>			
5 TYPE OF BLANK CASING USED:					
1 Steel		3 RMP (SR)		8 Concrete tile	
2 PVC		4 ABS		9 Other (specify below)	
Blank casing diameter in. to in.		7 Fiberglass		CASING JOINTS: Glued Clamped	
Casing height above land surface in., weight lbs./ft.		10 Asbestos-Cement		Welded Threaded <u>FLUSH</u>	
TYPE OF SCREEN OR PERFORATION MATERIAL:					
1 Steel		3 Stainless Steel		5 Fiberglass	
2 Brass		4 Galvanized Steel		8 RMP (SR)	
				9 ABS	
				11 Other (Specify)	
				12 None used (open hole)	
SCREEN OR PERFORATION OPENINGS ARE:					
1 Continuous slot		3 Mill slot		5 Guazed wrapped	
2 Louvered shutter		4 Key punched		6 Wire wrapped	
				7 Torch cut	
				8 Saw cut	
				9 Drilled holes	
				10 Other (specify)	
				11 None (open hole)	
SCREEN-PERFORATED INTERVALS:					
From ft. to ft.		From ft. to ft.		From ft. to ft.	
GRAVEL PACK INTERVALS:		From ft. to ft.		From ft. to ft.	
		From ft. to ft.		From ft. to ft.	
6 GROUT MATERIAL:					
1 Neat cement		2 Cement grout		3 Bentonite	
4 Other <u>CONCRETE</u>					
Grout intervals: From ft. to ft. From ft. to ft. From ft. to ft.					
What is the nearest source of possible contamination:					
1 Septic tank		4 Lateral lines		7 Pit privy	
2 Sewer lines		5 Cess pool		8 Sewage lagoon	
3 Watertight sewer lines		6 Seepage pit		9 Feedyard	
				10 Livestock pens	
				11 Fuel storage	
				12 Fertilizer storage	
				13 Insecticide storage	
				14 Abandoned water well	
				15 Oil well/Gas well	
				16 Other (specify below)	
Direction from well?					
FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	3	TOPSOIL			
3	40	BRN CLAY W/ SHALE			
40	55	BRN SILT			
55	90	BRN CLAY W/ SHALE			
90	100	BRN GRAVEL			
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>05/12/06</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No <u>638</u> This Water Well Record was completed on (mo/day/yr) <u>10/17/06</u> under the business name of <u>BOBET LONGYEAR COMPANY</u> by (signature) <u>[Signature]</u>					
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.					

[illegible]

Piezometer MW-12S, 12M & 12D: Barnes, KS

NE 1/4 of SE 1/4 of SW 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 09/10/06

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

HOLE SIZE

The hole is 9" in diameter from ground level to T.D. and grouted from the base of the flush mount to the top of first bentonite seal.

GRAVEL / SAND PACK

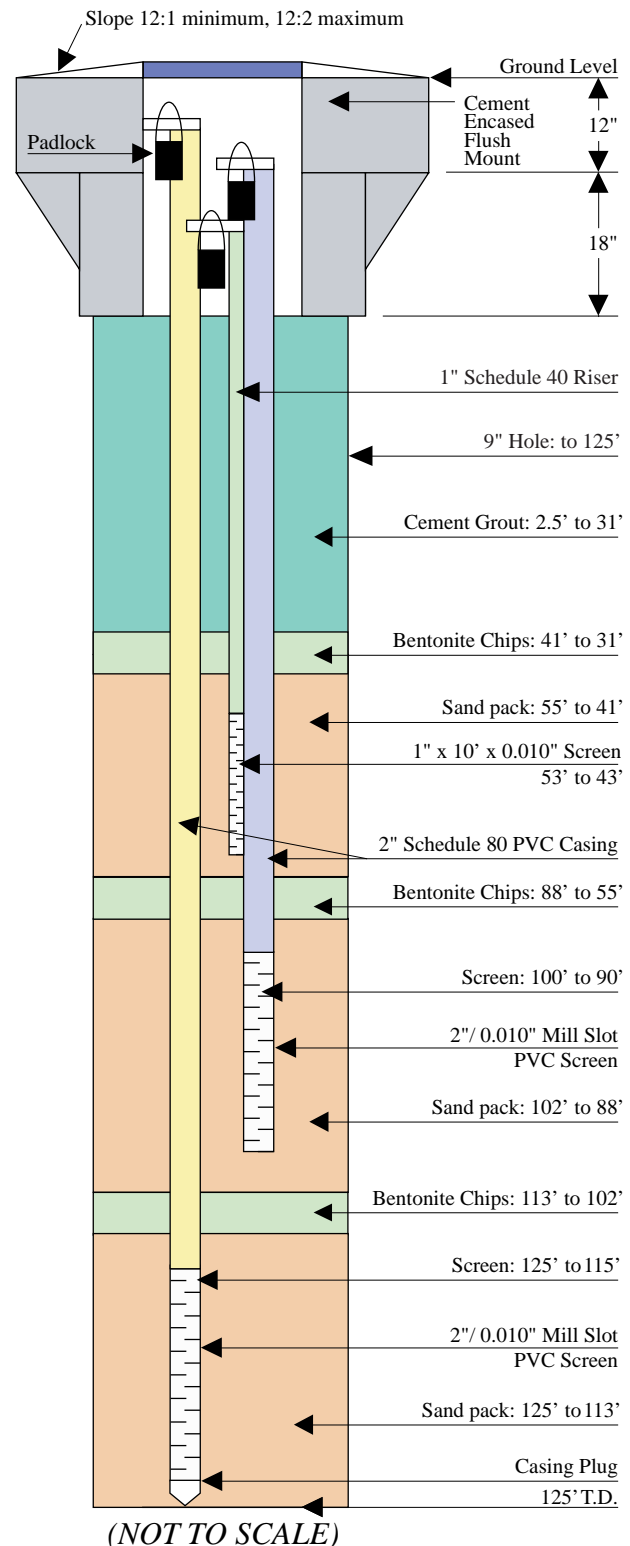
Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



INSTRUCTIONS: Use typewriter or ball point pen. **PLEASE PRESS FIRMLY** and **PRINT** clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1387. Telephone 785-296-5522. Send one to **WATER WELL OWNER** and retain one for your records. Fee of **\$5.00** for each constructed well.

[illegible]

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. <u>MU-1212</u>					
1 LOCATION OF WATER WELL:		Fraction	Section Number	Township Number	Range Number
County: <u>WASHINGTON</u>		<u>NE 1/4 SE 1/4 SW 1/4</u>	<u>9</u>	<u>T 4 S</u>	<u>R 5 E</u>
Distance and direction from nearest town or city street address of well if located within city? <u>80 FEET WEST OF CENTER STREET</u>					
2 WATER WELL OWNER: <u>USDA/CCC</u>					
RR#, St. Address, Box # : <u>STOP 0513- ROOM 4705</u>			Board of Agriculture, Division of Water Resources		
City, State, ZIP Code : <u>1400 INDEPENDENCE AVE SW</u> <u>WASHINGTON DC 20000</u>			Application Number: <u>N/A</u>		
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		4 DEPTH OF COMPLETED WELL <u>125</u> ft. ELEVATION: _____			
		Depth(s) Groundwater Encountered 1 <u>109</u> ft. 2 _____ ft. 3 _____ ft.			
		WELL'S STATIC WATER LEVEL _____ ft. below land surface measured on mo/day/yr _____			
		Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm			
		Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm			
WELL WATER TO BE USED AS:		5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well			
Was a chemical/bacteriological sample submitted to Department? Yes _____ No <u>X</u> ; If yes, mo/day/yr sample was submitted _____ Water Well Disinfected? Yes _____ No <u>(X)</u>					
5 TYPE OF BLANK CASING USED:					
1 Steel		3 RMP (SR)		5 Wrought iron	
2 PVC		4 ABS		6 Asbestos-Cement	
				7 Fiberglass	
Blank casing diameter <u>2</u> in. to <u>115</u> ft. Dia _____		Casing height above land surface _____ in., weight _____		8 Concrete tile	
				9 Other (specify below) _____	
Casing joints: Glued _____ Clamped _____				Welded _____	
				Threaded <u>FLUSH</u>	
TYPE OF SCREEN OR PERFORATION MATERIAL:					
1 Steel		3 Stainless Steel		5 Fiberglass	
2 Brass		4 Galvanized Steel		6 Concrete tile	
				7 RMP (SR)	
				8 ABS	
				10 Asbestos-Cement	
				11 Other (Specify) _____	
				12 None used (open hole)	
SCREEN OR PERFORATION OPENINGS ARE:					
1 Continuous slot		4 Mill slot		5 Gauzed wrapped	
2 Louvered shutter		4 Key punched		6 Wire wrapped	
				7 Torch cut	
				8 Saw cut	
				9 Drilled holes	
				10 Other (specify) _____	
				11 None (open hole)	
SCREEN-PERFORATED INTERVALS: From <u>125</u> ft. to <u>115</u> ft. From _____ ft. to _____ ft.					
GRAVEL PACK INTERVALS: From <u>125</u> ft. to <u>115</u> ft. From _____ ft. to _____ ft.					
6 GROUT MATERIAL: <u>Neat cement</u> 2 Cement grout <u>Bentonite</u> <u>Other CONCRETE</u>					
Grout Intervals: From <u>115</u> ft. to <u>100</u> ft. From <u>100</u> ft. to <u>2.5</u> ft. From <u>2.5</u> ft. to <u>0</u> ft.					
What is the nearest source of possible contamination:					
1 Septic tank		4 Lateral lines		7 Pit privy	
2 Sewer lines		5 Cess pool		8 Sewage lagoon	
3 Watertight sewer lines		6 Seepage pit		9 Feedyard	
				10 Livestock pens	
				11 Fuel storage	
				12 Fertilizer storage	
				13 Insecticide storage	
				14 Abandoned water well	
				15 Oil well/Gas well	
				16 Other (specify below) _____	
Direction from well? _____ How many feet? _____					
FROM		TO		LITHOLOGIC LOG	
FROM		TO		PLUGGING INTERVALS	
0	3			TOPSOIL	
3	33			BRN CLAY W/SHALE	
33	35			LIMESTONE	
35	45			BRN CLAY	
45	55			BRN SILT	
55	95			BRN CLAY W/SHALE	
95	100			BRN GRAVEL	
100	120			BRN CLAY W/SHALE	
120	125			LIMESTONE	
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>09/08/06</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No <u>458</u> This Water Well Record was completed on (mo/day/yr) <u>10/17/06</u> under the business name of <u>BOAR LONGYEAR COMPANY</u> by (signature) <u>[Signature]</u>					
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.					

Piezometer MW-13S & 13D: Barnes, KS

SE 1/4 of NE 1/4 of SW 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/01/07

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co.
Model 678XA and a screened vent with a locking pipe plug and
padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount
(28" minimum). Sloped to prevent pooling of water, vegetation
around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in
the hole as required, mixed with clean fresh water to have a
minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush
mount and is capped with a (J-Plug) Morrison Brothers, Co.
Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010")
well screen were installed.

HOLE SIZE

The hole is 9" in diameter from ground level to T.D. and grouted
from the base of the flush mount to the top of first bentonite seal.

GRAVEL / SAND PACK

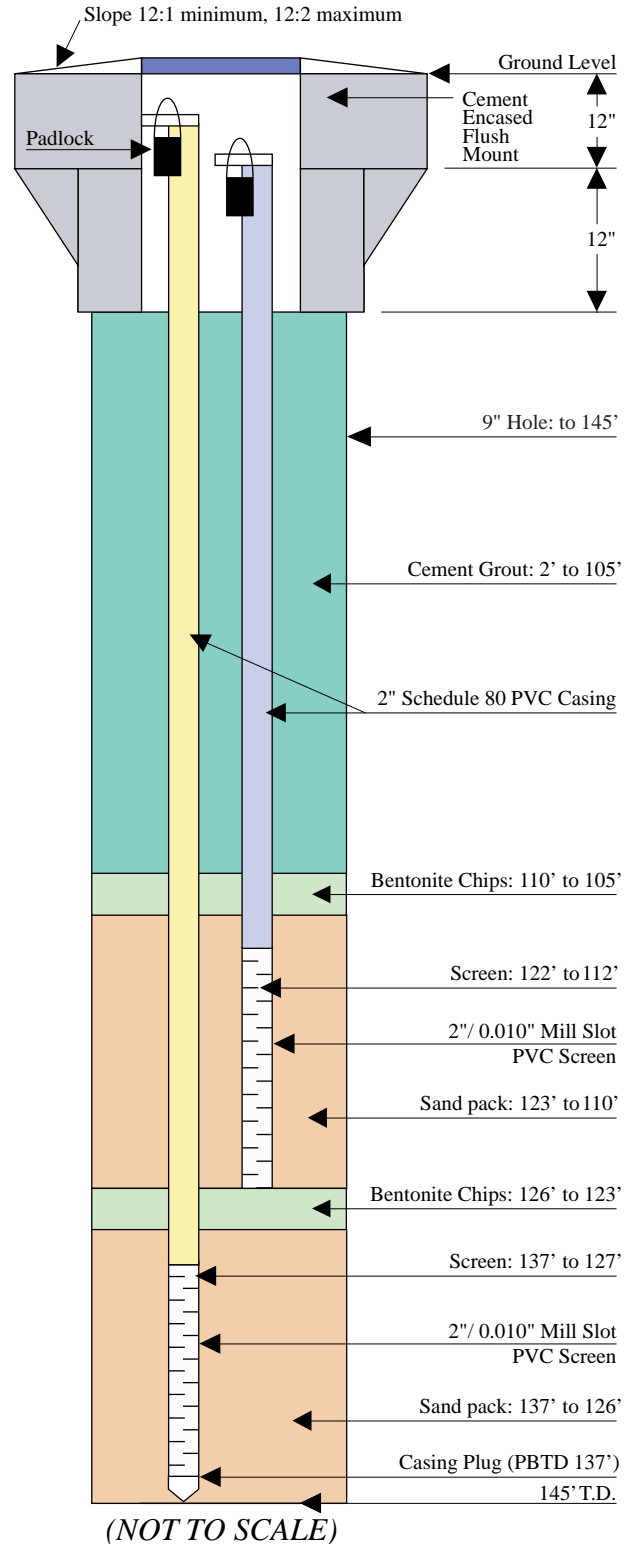
Gravel/sand pack size and gradation was determined based upon
the grain size and gradation of portion or portions of the aquifer
that were screened. Gravel pack was designed to stabilize the
aquifer material and permit the fine fraction to move into the well
during development. Gravel pack extends to the length and at least
1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water
well contractor as specified under the Kansas Department of
Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health
and Environment on form WWC-5 provided by that department.



INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send ten copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1357. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

Piezometer MW-14S & 14D: Barnes, KS

SE 1/4 of NE 1/4 of SW 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/03/07

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

HOLE SIZE

The hole is 9" in diameter from ground level to T.D. and grouted from the base of the flush mount to the top of first bentonite seal.

GRAVEL / SAND PACK

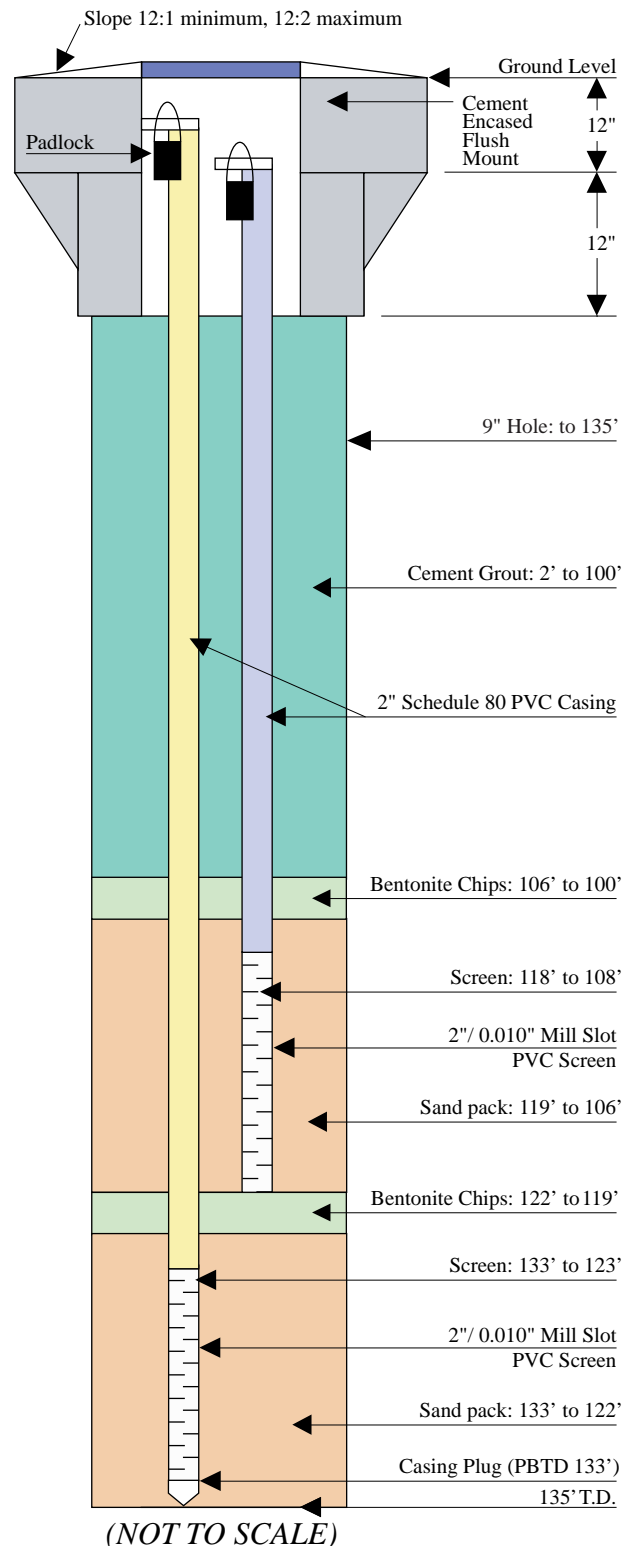
Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



[illegible]

[illegible]

Piezometer MW-15S & 15D: Barnes, KS

SW 1/4 of NW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/06/07

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover. Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

HOLE SIZE

The hole is 9" in diameter from ground level to T.D. and grouted from the base of the flush mount to the top of first bentonite seal.

GRAVEL / SAND PACK

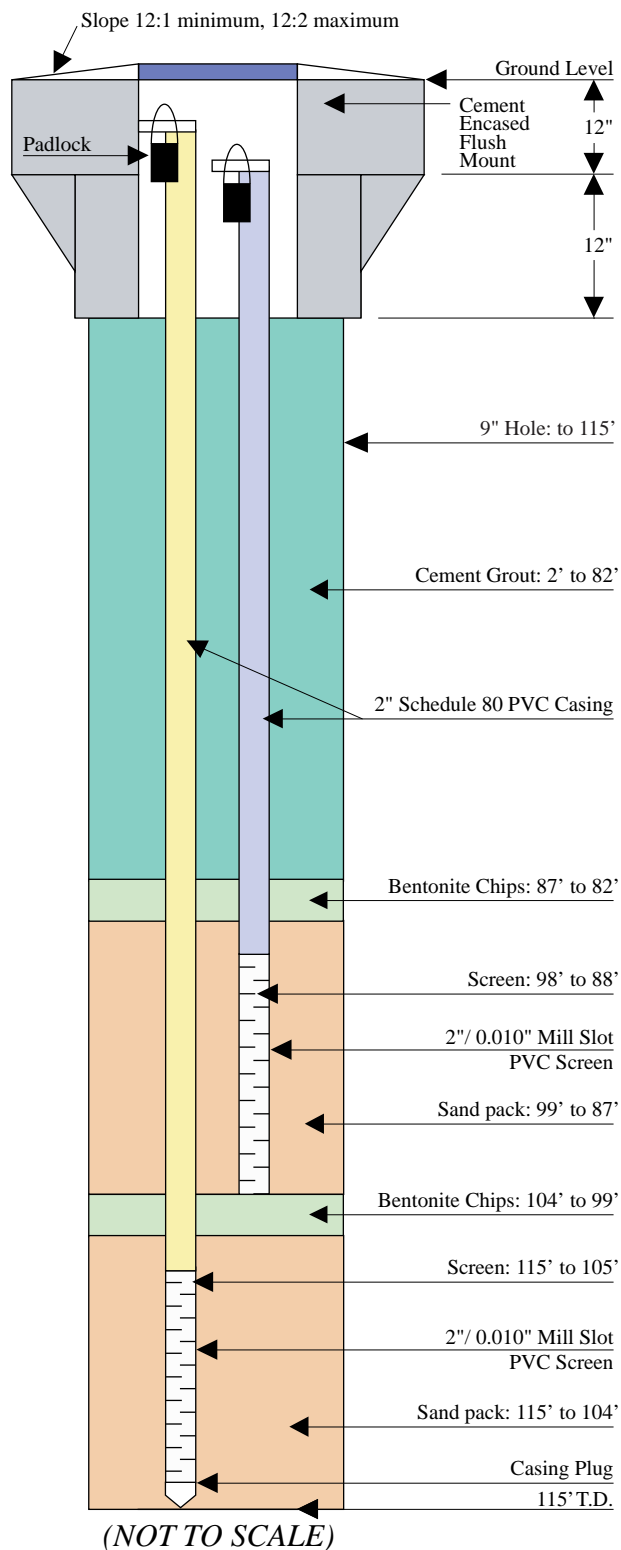
Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



[illegible]

Piezometer MW-16S: Barnes, KS

SE 1/4 of NW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/09/07

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover.
Top of casing is fitted with a (J-Plug) Morrison Brothers, Co.
Model 678XA and a screened vent with a locking pipe plug and
padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount
(28" minimum). Sloped to prevent pooling of water, vegetation
around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in
the hole as required, mixed with clean fresh water to have a
minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush
mount and is capped with a (J-Plug) Morrison Brothers, Co.
Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010")
well screen were installed.

HOLE SIZE

The hole is 6" in diameter from 2' below ground level to T.D. and
grouted to the base of the flush mount.

GRAVEL / SAND PACK

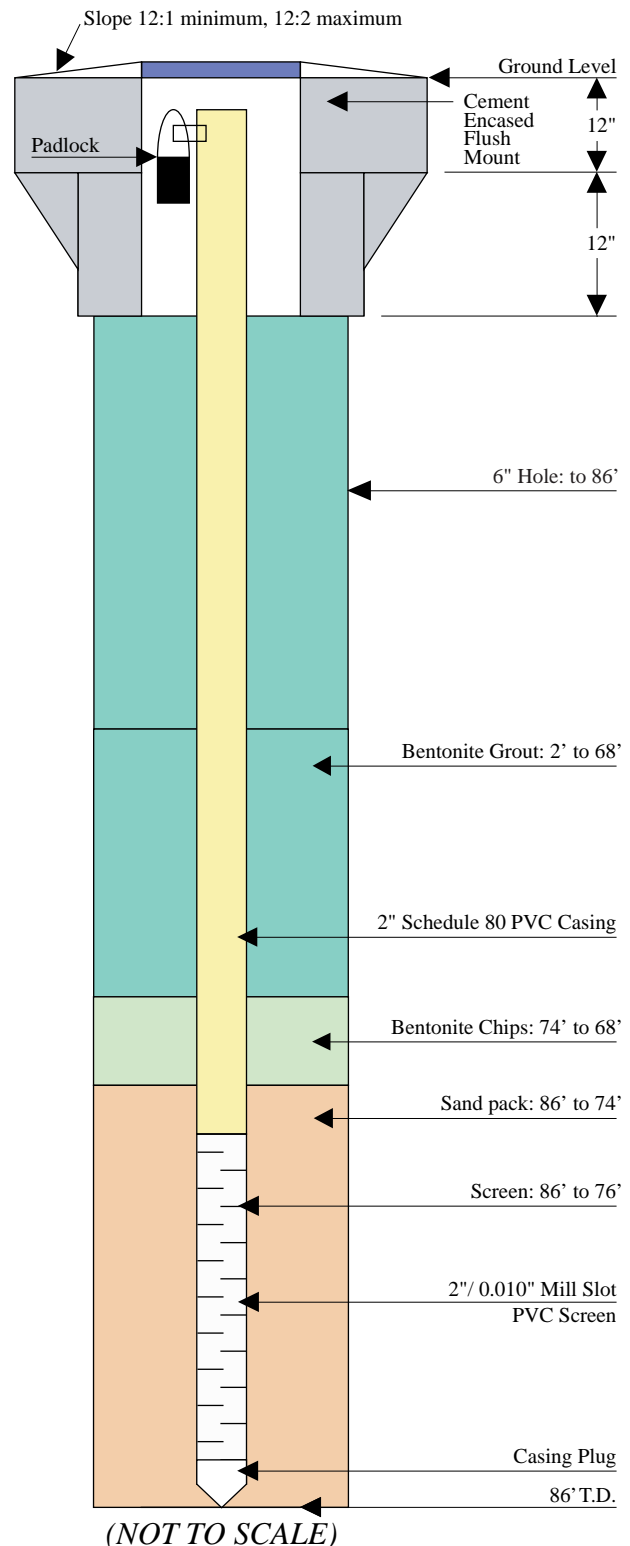
Gravel/sand pack size and gradation was determined based upon
the grain size and gradation of portion or portions of the aquifer
that were screened. Gravel pack was designed to stabilize the
aquifer material and permit the fine fraction to move into the well
during development. Gravel pack extends to the length and at least
1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water
well contractor as specified under the Kansas Department of
Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health
and Environment on form WWC-5 provided by that department.



INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

Piezometer MW-16D: Barnes, KS

SE 1/4 of NW 1/4 of SE 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/08/07

WELL HEAD PROTECTION

12" Morrison Brothers, Co. Model 418XA flush mount cover. Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

CONCRETE PAD

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

IMPERVIOUS GROUT

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

WELL CASING

Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

HOLE SIZE

The hole is 6" in diameter from 2' below ground level to T.D. and grouted to the base of the flush mount.

GRAVEL / SAND PACK

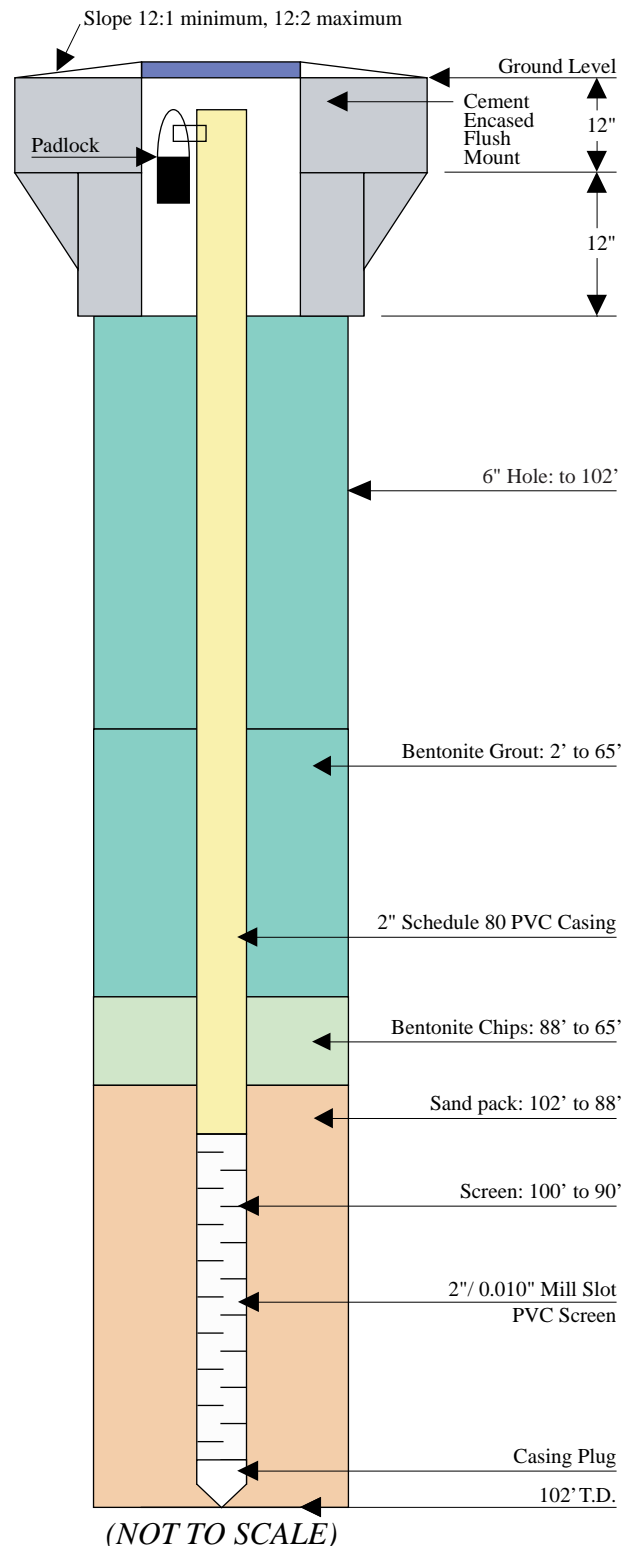
Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

CONTRACTOR LICENSING

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

REGISTRATION

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



[illegible]

SW 1/4 of NE 1/4 of SW 1/4 of Section 9, Twp. 4 South, Rge. 5 East
Washington County, State of Kansas

Date: 03/09/07

12" Morrison Brothers, Co. Model 418XA flush mount cover. Top of casing is fitted with a (J-Plug) Morrison Brothers, Co. Model 678XA and a screened vent with a locking pipe plug and padlock.

Minimum of 8" thick and extends 8" larger than the flush mount (28" minimum). Sloped to prevent pooling of water, vegetation around well, and allows for placement of a surveyor pin.

The well is grouted with impervious cement grout and tremied in the hole as required, mixed with clean fresh water to have a minimum density of 14 lbs. per gallon.

Well casing is terminated as high as possible inside the flush mount and is capped with a (J-Plug) Morrison Brothers, Co. Model 678XA locking plug and padlock.

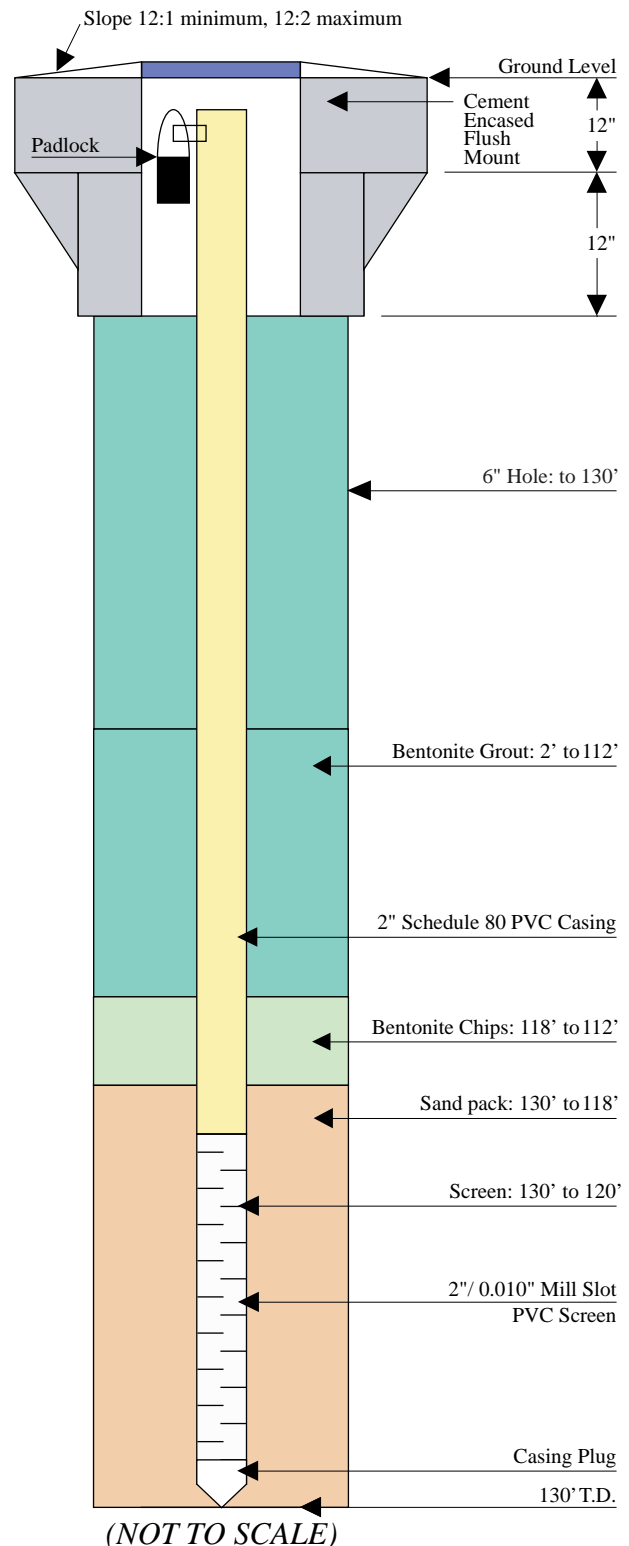
2" Schedule 80 PVC threaded casing and Mill Slot (0.010") well screen were installed.

The hole is 6" in diameter from 2' below ground level to T.D. and grouted to the base of the flush mount.

Gravel/sand pack size and gradation was determined based upon the grain size and gradation of portion or portions of the aquifer that were screened. Gravel pack was designed to stabilize the aquifer material and permit the fine fraction to move into the well during development. Gravel pack extends to the length and at least 1' above the screen.

All wells were constructed under the direction of a licensed water well contractor as specified under the Kansas Department of Health and Environment regulation.

All wells were registered with the Kansas Department of Health and Environment on form WWC-5 provided by that department.



[illegible]

Appendix E:

Field Documentation for the 2006-2007 Investigation at Barnes

TABLE E.1 Field documentation of sampling for the 2006-2007 investigation at Barnes, Kansas.

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC) ^b	Chain of Custody	Shipping Date	Sample Description
7/19/06	11:15	BAMW3D-W-21686	Water	MW	MW3D	133.02-152.73	3757	7/20/06	Depth to water from top of casing (TOC) = 128.96 ft. Depth of well from TOC = 156.50 ft. Sample collected after purging of 14 gal with Redi-Flo pump at 0.5 gpm.
7/19/06	13:20	BAMW1D-W-21688	Water	MW	MW1D	139.85-159.4	3757	7/20/06	Depth to water from TOC = 135.20 ft. Depth of well from TOC = 159.20 ft. Sample collected after purging of 12 gal with Redi-Flo pump.
7/19/06	13:21	BAMW1D-W-21689 ^c	Water	MW	MW1D	139.85-159.4	3757	7/20/06	Replicate of sample BAMW1D-W-21688.
7/19/06	13:30	BAMW1S-W-no sample ^d	Water	MW	MW1S	13.3-23.3	–	–	Dry well. No sample collected. Depth of well from TOC = 23.92 ft. No water.
7/19/06	14:32	BAMW2D-W-21687	Water	MW	MW2D	133.26-152.93	3757	7/20/06	Depth to water from TOC = 132.00 ft. Depth of well from TOC = 158.30 ft. Sample collected after purging of 14 gal with Redi-Flo pump.
7/20/06	8:48	BAMW4D-W-21690	Water	MW	MW4D	98.38-118.22	3757	7/20/06	Depth to water from TOC = 108.80 ft. Depth of well from TOC = 118.50 ft. Sample collected after purging of 5 gal with Redi-Flo pump at 0.5 gpm.
7/20/06	9:00	BARINSATE-W-21691 ^c	Water	RI	QC	–	3757	7/20/06	Rinsate of decontaminated Redi-Flo tubing after collection of sample BAMW4D-W-21690.
7/20/06	9:45	BAOENT-W-21693	Water	DW	Oentrich	150	3757	7/20/06	Oentrich private well sampled from faucet at backyard patio after purging of 20 gal. Per owner, the pump was set at 135 ft, but the well total depth is approximately 150 ft, screened interval unknown. This is a 6-in. well with a 4-in. pump.
7/20/06	10:30	BAQCTB-W-21692 ^c	Water	TB	QC	–	3757	7/20/06	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COC 3757.
7/31/06	13:30	BAMW5-S-21696	Soil	SB	MW5	4.5	3759	7/31/06	Vertical-profile soil sampling at northeast corner of former CCC/USDA property.
7/31/06	13:41	BAMW5-S-21697	Soil	SB	MW5	8	3759	7/31/06	
7/31/06	13:53	BAMW5-S-21698	Soil	SB	MW5	12	3759	7/31/06	
7/31/06	14:02	BAMW5-S-21699	Soil	SB	MW5	16.5	3759	7/31/06	
7/31/06	14:15	BAMW5-S-21700	Soil	SB	MW5	19	3759	7/31/06	
7/31/06	14:26	BAMW5-S-21701	Soil	SB	MW5	20	3759	7/31/06	
7/31/06	14:40	BAMW5-S-21702	Soil	SB	MW5	24	3759	7/31/06	
7/31/06	14:40	BAMW5-S-21703	Soil	SB	MW5	28	3759	7/31/06	
7/31/06	15:09	BAMW5-S-21704	Soil	SB	MW5	33	3759	7/31/06	
7/31/06	16:15	BATB-S-21705 ^c	Soil	TB	QC	–	3759	7/31/06	
7/31/06	18:21	BAMW5-S-21706	Soil	SB	MW5	39	3524	8/2/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COC 3759.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
7/31/06	18:40	BAMW5-S-21707	Soil	SB	MW5	42.5	3524	8/2/06	
8/1/06	9:00	BAMW5-S-21708	Soil	SB	MW5	45.5	3524	8/2/06	
8/1/06	10:08	BAMW5-S-21709	Soil	SB	MW5	58.8	3524	8/2/06	
8/1/06	13:07	BAMW5-S-21710	Soil	SB	MW5	71.5	3524	8/2/06	
8/2/06	13:10	BAMW5-W-21711 ^e	Water	MW	MW5	110-120	4732	8/2/06	Sample collected after partial development just after well completion. Water was very clear. Minor drawdown on well during pumping. Very good production from this zone.
8/2/06	13:25	BAWW1-W-21712 ^c	Water	BT	QC	–	4732	8/2/06	Composite sample of wastewater generated during drilling of MW5. Drilling water circulated through borehole.
8/2/06	14:40	BAOENT-W-21713	Water	DW	Oentrich	150	4732	8/2/06	Oentrich private well. Sample collected after pumping continuously from 8/1/06 at 1715 hr to 8/2/06 at 1440 hr. Data logger installed.
8/2/06	15:30	BAQCTB-W-21714 ^c	Water	TB	QC	–	4732	8/2/06	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COC 4732.
8/2/06	15:45	BAQCTB-S-21715 ^c	Soil	TB	QC	–	3524	8/2/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COC 3524.
8/2/06	17:08	BAMW9-S-21716	Soil	SB	MW9	5	4733	8/3/06	Vertical-profile soil sampling at northwest corner of former CCC/USDA property.
8/2/06	17:15	BAMW9-S-21717	Soil	SB	MW9	10	4733	8/3/06	
8/3/06	8:53	BAMW9-S-21718	Soil	SB	MW9	15	4733	8/3/06	
8/3/06	9:17	BAMW9-S-21719	Soil	SB	MW9	19	4733	8/3/06	
8/3/06	9:44	BAMW9-S-21720	Soil	SB	MW9	25	4733	8/3/06	
8/3/06	9:45	BAMW9-S-21721	Soil	SB	MW9	30	4733	8/3/06	
8/3/06	9:46	BAMW9-S-21722	Soil	SB	MW9	33	4733	8/3/06	
8/3/06	15:30	BAQCTB-S-21736 ^c	Soil	TB	QC	–	4733	8/3/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COC 4733.
8/4/06	13:45	BAMW9-S-21723	Soil	SB	MW9	35	4734	8/4/06	
8/4/06	13:45	BAMW9-S-21724	Soil	SB	MW9	38	4734	8/4/06	
8/4/06	14:01	BAMW9-S-21725	Soil	SB	MW9	41.5	4734	8/4/06	
8/4/06	14:16	BAMW9-S-21726	Soil	SB	MW9	48	4734	8/4/06	
8/4/06	14:16	BAMW9-S-21727	Soil	SB	MW9	44	4734	8/4/06	
8/4/06	14:16	BAMW9-S-21728 ^c	Soil	SB	MW9	44	4734	8/4/06	Replicate of sample BAMW9-S-21727.
8/4/06	14:47	BAMW9-S-21729	Soil	SB	MW9	49	4734	8/4/06	
8/4/06	14:47	BAMW9-S-21730	Soil	SB	MW9	52.5	4734	8/4/06	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
8/4/06	15:09	BAMW9-S-21731	Soil	SB	MW9	58	4734	8/4/06	
8/4/06	15:25	BAQCTB-S-21732 ^c	Soil	TB	QC	–	4734	8/4/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COC 4734.
8/4/06	16:10	BAMW9-S-21733	Soil	SB	MW9	63	4739	8/5/06	
8/4/06	16:51	BAMW9-S-21734	Soil	SB	MW9	66	4739	8/5/06	
8/4/06	17:09	BAMW9-S-21735	Soil	SB	MW9	70	4739	8/5/06	
8/4/06	17:36	BAMW9-S-21737	Soil	SB	MW9	78.8	4739	8/5/06	
8/4/06	18:05	BAMW9-S-21738	Soil	SB	MW9	80.5	4739	8/5/06	
8/5/06	7:36	BAMW9-S-21739	Soil	SB	MW9	89.5	4739	8/5/06	
8/5/06	7:55	BAMW9-W-21740 ^e	Water	SB	MW9	65-90	4735	8/5/06	Sample collected from borehole during drilling of well at northwest corner of former CCC/USDA property. Water present at 90 ft BGL. Casing set at 65 ft BGL. Depth of drilling at time of collection at 90 ft BGL.
8/5/06	8:56	BAMW9-S-21744	Soil	SB	MW9	94.5	4747	8/7/06	
8/5/06	11:30	BAQCTB-S-21743 ^c	Soil	TB	QC	–	4739	8/5/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COC 4739.
8/5/06	11:44	BAMW8-S-21756	Soil	SB	MW8	4	4741	8/7/06	Vertical-profile soil sampling at southwest corner of former CCC/USDA property, between Oentrich well and existing KDHE monitoring well MW4D.
8/5/06	11:56	BAMW8-S-21757	Soil	SB	MW8	9	4741	8/7/06	
8/5/06	11:59	BAMW9-W-21741 ^e	Water	MW	MW9	100-110	4735	8/5/06	Well at northwest corner of former CCC/USDA property. Sample collected after minimal purging following well completion.
8/5/06	12:00	BAQCTB-W-21742 ^c	Water	TB	QC	–	4735	8/5/06	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COC 4735.
8/5/06	12:05	BAMW8-S-21758	Soil	SB	MW8	13	4741	8/7/06	
8/5/06	12:22	BAMW8-S-21759	Soil	SB	MW8	17	4741	8/7/06	
8/5/06	12:44	BAMW8-S-21760	Soil	SB	MW8	23	4741	8/7/06	
8/5/06	13:30	BAMW8-S-21761	Soil	SB	MW8	29	4741	8/7/06	
8/5/06	13:30	BAMW8-S-21762	Soil	SB	MW8	33	4741	8/7/06	
8/5/06	13:48	BAMW8-S-21764	Soil	SB	MW8	34	4741	8/7/06	
8/5/06	13:48	BAMW8-S-21763	Soil	SB	MW8	39	4741	8/7/06	
8/5/06	14:12	BAMW8-S-21765	Soil	SB	MW8	43.5	4741	8/7/06	
8/5/06	14:40	BAMW8-S-21766	Soil	SB	MW8	49	4741	8/7/06	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
8/5/06	15:30	BAMW8-S-21767	Soil	SB	MW8	54	4741	8/7/06	
8/5/06	15:30	BAMW8-S-21768	Soil	SB	MW8	59	4741	8/7/06	
8/5/06	16:05	BAMW8-S-21769	Soil	SB	MW8	63	4741	8/7/06	
8/5/06	16:53	BAMW8-S-21770	Soil	SB	MW8	67	4741	8/7/06	
8/5/06	16:53	BAMW8-S-21771 ^c	Soil	SB	MW8	67	4748	8/7/06	Replicate of sample BAMW8-S-21770.
8/5/06	17:32	BAMW8-S-21772	Soil	SB	MW8	71	4748	8/7/06	
8/5/06	17:45	BAMW8-S-21773	Soil	SB	MW8	75	4748	8/7/06	
8/6/06	7:22	BAMW8-S-21774	Soil	SB	MW8	80	4748	8/7/06	
8/6/06	7:45	BAMW8-S-21775	Soil	SB	MW8	84	4748	8/7/06	
8/6/06	8:12	BAMW8-S-21776	Soil	SB	MW8	89	4748	8/7/06	
8/6/06	8:55	BAMW8-S-21777	Soil	SB	MW8	96	4748	8/7/06	
8/6/06	9:15	BAMW8-S-21778	Soil	SB	MW8	101	4748	8/7/06	
8/6/06	9:50	BAMW8-S-21779	Soil	SB	MW8	108	4748	8/7/06	
8/6/06	11:50	BAMW7-S-21780	Soil	SB	MW7	4	4748	8/7/06	Vertical-profile soil sampling at southeast corner of former CCC/USDA property.
8/6/06	12:01	BAMW7-S-21781	Soil	SB	MW7	9	4748	8/7/06	
8/6/06	12:30	BAMW7-S-21782	Soil	SB	MW7	14	4748	8/7/06	
8/6/06	12:45	BAMW7-S-21783	Soil	SB	MW7	19	4748	8/7/06	
8/6/06	12:59	BAMW7-S-21784	Soil	SB	MW7	22.5	4748	8/7/06	
8/6/06	13:06	BAMW7-S-21785	Soil	SB	MW7	26	4748	8/7/06	
8/6/06	13:41	BAMW7-S-21786	Soil	SB	MW7	31	4742	8/7/06	
8/6/06	13:41	BAMW7-S-21787	Soil	SB	MW7	33.5	4742	8/7/06	
8/6/06	14:33	BAMW7-S-21788	Soil	SB	MW7	37	4742	8/7/06	
8/6/06	14:48	BAMW7-S-21789	Soil	SB	MW7	41	4742	8/7/06	
8/6/06	14:48	BAMW7-S-21790	Soil	SB	MW7	45	4742	8/7/06	
8/6/06	15:07	BAMW8-W-21806 ^e	Water	MW	MW8	110-120	4746	8/7/06	Well at southwest corner of former CCC/USDA property. Sampled during development the day after the well was installed. Water slightly turbid to clear.
8/6/06	15:07	BAMW8-W-21811 ^{c,e}	Water	MW	MW8	110-120	4746	8/7/06	Replicate of sample BAMW8-W-21806.
8/6/06	15:45	BAMW7-S-21791	Soil	SB	MW7	50	4742	8/7/06	
8/6/06	15:45	BAMW7-S-21792	Soil	SB	MW7	54	4742	8/7/06	
8/7/06	7:18	BAMW7-S-21793	Soil	SB	MW7	59	4742	8/7/06	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
8/7/06	7:31	BAMW7-S-21794	Soil	SB	MW7	64	4742	8/7/06	
8/7/06	8:20	BAMW7-S-21795	Soil	SB	MW7	66	4742	8/7/06	
8/7/06	8:20	BAMW7-S-21796	Soil	SB	MW7	74	4742	8/7/06	
8/7/06	9:09	BAMW7-S-21797	Soil	SB	MW7	79	4742	8/7/06	
8/7/06	9:09	BAMW7-S-21798	Soil	SB	MW7	84	4742	8/7/06	
8/7/06	9:31	BAMW7-W-21799 ^e	Water	SB	MW7	75-85	4746	8/7/06	Sample collected from borehole during drilling of well at southeast corner of former CCC/USDA property. Water slightly silty, turbid.
8/7/06	10:40	BAMW7-S-21800	Soil	SB	MW7	89	4742	8/7/06	
8/7/06	11:06	BAMW7-S-21801	Soil	SB	MW7	94	4742	8/7/06	
8/7/06	11:56	BAMW7-S-21802	Soil	SB	MW7	100	4747	8/7/06	
8/7/06	11:56	BAMW7-S-21803	Soil	SB	MW7	105	4747	8/7/06	
8/7/06	12:15	BAMW7-S-21804	Soil	SB	MW7	109	4747	8/7/06	
8/7/06	12:30	BAMW7-S-21809	Soil	SB	MW7	114	4747	8/7/06	
8/7/06	15:06	BAMW7-W-21805 ^e	Water	MW	MW7	116-126	4746	8/7/06	Sampled during development the day after the well was installed. Clear water.
8/7/06	16:45	BAQCTB-S-21810 ^c	Soil	TB	QC	–	4747	8/7/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COCs 4741, 4748, 4742, and 4747.
8/7/06	16:50	BAQCTB-W-21812 ^c	Water	TB	QC	–	4746	8/7/06	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COC 4746.
8/10/06	10:00	BA-MEOH-081006 ^c	Soil	TB	QC	–	4034	8/10/06	Trip blank with soil samples to Severn-Trent Laboratories for verification organic analysis listed on COC 4034.
8/17/06	14:10	BAMW10-S-21816	Soil	SB	MW10	4	4743	8/18/06	
8/17/06	14:16	BAMW10-S-21817	Soil	SB	MW10	8	4743	8/18/06	
8/17/06	14:23	BAMW10-S-21818	Soil	SB	MW10	13	4743	8/18/06	
8/17/06	14:34	BAMW10-S-21819	Soil	SB	MW10	18	4743	8/18/06	
8/17/06	14:44	BAMW10-S-21820	Soil	SB	MW10	23	4743	8/18/06	
8/17/06	15:18	BAMW10-S-21821	Soil	SB	MW10	27	4743	8/18/06	
8/17/06	15:41	BAMW10-S-21822	Soil	SB	MW10	31	4743	8/18/06	
8/17/06	15:41	BAMW10-S-21823 ^c	Soil	SB	MW10	31	4743	8/18/06	Replicate of sample BAMW10-S-21822.
8/17/06	17:15	BAMW10-S-21825	Soil	SB	MW10	35.5	4743	8/18/06	
8/17/06	17:31	BAMW10-S-21826	Soil	SB	MW10	43	4743	8/18/06	
8/17/06	18:09	BAMW10-S-21827	Soil	SB	MW10	47	4743	8/18/06	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
8/17/06	18:25	BAMW10-S-21828	Soil	SB	MW10	52	4743	8/18/06	
8/18/06	7:40	BAMW10-S-21829	Soil	SB	MW10	58	4743	8/18/06	
8/18/06	7:52	BAMW10-S-21830	Soil	SB	MW10	63	4743	8/18/06	
8/18/06	8:35	BAMW10-S-21831	Soil	SB	MW10	67.5	4743	8/18/06	
8/18/06	8:35	BAMW10-S-21832	Soil	SB	MW10	71	4738	8/18/06	
8/18/06	9:32	BAMW10-S-21833	Soil	SB	MW10	75	4738	8/18/06	
8/18/06	9:53	BAMW10-S-21834	Soil	SB	MW10	79	4738	8/18/06	
8/18/06	10:19	BAMW10-S-21835	Soil	SB	MW10	83	4738	8/18/06	
8/18/06	11:39	BAMW10-S-21836	Soil	SB	MW10	87	4738	8/18/06	
8/18/06	12:00	BAMW10-S-21837	Soil	SB	MW10	92	4738	8/18/06	
8/18/06	14:20	BAQCTB-S-21845 ^c	Soil	TB	QC	–	4738	8/18/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COCs 4743 and 4738.
8/18/06	14:26	BAMW10-S-21838	Soil	SB	MW10	97	4738	8/18/06	
8/18/06	15:18	BAMW10-S-21839	Soil	SB	MW10	101	4738	8/18/06	
8/18/06	15:40	BAMW10-W-21844 ^e	Water	MW	MW10S	93-103	3716	8/19/06	Center of former CCC/USDA property. Sample collected without purging the day after well completion. Minimal water available. Slightly turbid. Insufficient water for field parameters.
8/18/06	17:15	BAMW10-S-21824	Soil	SB	MW10	39	4738	8/18/06	
8/19/06	17:00	BAQCTB-W-21848 ^c	Water	TB	QC	–	3716	8/19/06	Trip blank sent to the AGEM Laboratory for organic analyses with water sample listed on COC 3716.
8/21/06	11:30	BAMW10D-W-21847 ^e	Water	MW	MW10D	115-125	3683	8/23/06	Center of former CCC/USDA property. Deeper well. Sample collected during development after purging of approximately 500 gal. Depth to water from TOC = 117.5 ft. Water level dropped approximately 0.5 ft during development.
8/21/06	14:30	BAQCTB-W-21850 ^c	Water	TB	QC	–	3683	8/23/06	Trip blank with water sample to AGEM Laboratory for organic analysis listed on COC 3683.
8/22/06	13:45	BACW-W-21849 ^c	Water	DW	Sedivy	138	3683	8/23/06	Four-inch-diameter well at East St. and Railroad Ave. Identified as "city well" No cover on well. Sampled by using bailer. Depth to water = 124.2 ft.
8/22/06	14:30	BAMW10-W-21846 ^e	Water	MW	MW10S	93-103	3683	8/23/06	Center of former CCC/USDA property. Sample collected during development after purging of approximately 100 gal. Depth to water from TOC = 98.5 ft.
8/24/06	13:30	BA-QCTB-82406 ^c	Water	TB	QC	–	4035	8/24/06	Trip blank sent to EnviroSystems for verification organic analysis with water sample listed on COC 4035.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
9/6/06	8:06	BAMW11-S-21856	Soil	SB	MW11	5	4749	9/9/06	Vertical-profile subsurface soil sampling at location between former CCC/USDA property and city wells PWS2 and PWS3.
9/6/06	8:21	BAMW11-S-21857	Soil	SB	MW11	11	4749	9/9/06	
9/6/06	8:42	BAMW11-S-21858	Soil	SB	MW11	15	4749	9/9/06	
9/6/06	8:55	BAMW11-S-21859	Soil	SB	MW11	20	4749	9/9/06	
9/6/06	10:42	BAMW11-S-21860	Soil	SB	MW11	25	4749	9/9/06	
9/6/06	11:00	BAMW11-S-21861	Soil	SB	MW11	30	4749	9/9/06	
9/6/06	11:10	BAMW11-S-21862	Soil	SB	MW11	35	4749	9/9/06	
9/6/06	12:25	BAMW11-S-21863	Soil	SB	MW11	40	4749	9/9/06	
9/6/06	13:20	BAMW11-S-21864	Soil	SB	MW11	45	4749	9/9/06	
9/6/06	13:46	BAMW11-S-21865	Soil	SB	MW11	50	4749	9/9/06	Non-purged sample from borehole at indicated depth. Very turbid. Field measurements not made.
9/6/06	14:25	BAMW11-W-21866 ^e	Water	SB	MW11	45-50	4753	9/9/06	
9/6/06	14:45	BAMW11-S-21867	Soil	SB	MW11	55	4749	9/9/06	
9/6/06	15:30	BAMW11-S-21868	Soil	SB	MW11	60	4749	9/9/06	
9/6/06	16:15	BAMW11-S-21869	Soil	SB	MW11	65	4749	9/9/06	
9/6/06	16:56	BAMW11-S-21870	Soil	SB	MW11	70	4749	9/9/06	
9/6/06	17:31	BAMW11-S-21871	Soil	SB	MW11	75	4749	9/9/06	
9/6/06	17:55	BAMW11-S-21872	Soil	SB	MW11	80	4754	9/9/06	
9/6/06	18:20	BAMW11-S-21873	Soil	SB	MW11	85	4754	9/9/06	
9/7/06	8:37	BAMW11-S-21874	Soil	SB	MW11	90	4754	9/9/06	Non-purged sample from borehole at indicated depth. Turbid.
9/7/06	8:41	BAMW11-S-21875	Soil	SB	MW11	100	4754	9/9/06	
9/7/06	9:41	BAMW11-S-21876	Soil	SB	MW11	105	4754	9/9/06	
9/7/06	12:30	BAMW11-W-21916 ^e	Water	SB	MW11	125-130	4753	9/9/06	
9/8/06	8:50	BAMW12-S-21877	Soil	SB	MW12	4	4751	9/9/06	Vertical-profile subsurface soil sampling at location in ballfield in city park, east side of Right Field.
9/8/06	9:05	BAMW12-S-21878	Soil	SB	MW12	8	4751	9/9/06	
9/8/06	9:24	BAMW12-S-21879	Soil	SB	MW12	13	4751	9/9/06	
9/8/06	9:51	BAMW12-S-21880	Soil	SB	MW12	18	4751	9/9/06	
9/8/06	10:35	BAMW12-S-21881	Soil	SB	MW12	23	4751	9/9/06	
9/8/06	10:55	BAMW12-S-21882	Soil	SB	MW12	27	4751	9/9/06	
9/8/06	11:24	BAMW12-S-21883	Soil	SB	MW12	30	4751	9/9/06	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
9/8/06	12:00	BAMW12-S-21884	Soil	SB	MW12	35	4751	9/9/06	
9/8/06	12:45	BAMW12-S-21885	Soil	SB	MW12	40	4751	9/9/06	
9/8/06	13:00	BAMW12-S-21886	Soil	SB	MW12	45	4751	9/9/06	
9/8/06	14:09	BAMW12-S-21887	Soil	SB	MW12	50	4751	9/9/06	
9/8/06	14:46	BAMW12-S-21888	Soil	SB	MW12	55	4751	9/9/06	
9/8/06	15:50	BAMW12-S-21889	Soil	SB	MW12	60	4751	9/9/06	
9/8/06	16:20	BAMW12-S-21890	Soil	SB	MW12	65	4751	9/9/06	
9/8/06	17:00	BAMW12-S-21891	Soil	SB	MW12	70	4751	9/9/06	
9/8/06	17:02	BAMW12-S-21892	Soil	SB	MW12	75	4752	9/9/06	
9/8/06	18:06	BAMW12-S-21893	Soil	SB	MW12	79	4752	9/9/06	
9/8/06	18:33	BAMW12-S-21894	Soil	SB	MW12	85	4752	9/9/06	
9/9/06	8:01	BAMW12-S-21895	Soil	SB	MW12	90	4752	9/9/06	
9/9/06	10:00	BAMW12-S-21896	Soil	SB	MW12	94	4752	9/9/06	
9/9/06	10:10	BAMW12-S-21897	Soil	SB	MW12	99	4752	9/9/06	
9/9/06	10:11	BAMW12-S-21898 ^c	Soil	SB	MW12	99	4752	9/9/06	Replicate of sample BAMW12-S-21897.
9/9/06	10:25	BAMW12-W-21917 ^e	Water	SB	MW12	95-100	4753	9/9/06	Non-purged sample from borehole at indicated depth. Turbid.
9/9/06	11:08	BAMW12-S-21899	Soil	SB	MW12	104	4752	9/9/06	
9/9/06	11:22	BAMW12-S-21900	Soil	SB	MW12	109	4752	9/9/06	
9/9/06	11:32	BAMW12-S-21901	Soil	SB	MW12	114	4752	9/9/06	
9/9/06	12:00	BAQCTB-W-21918 ^c	Water	TB	QC	–	4753	9/9/06	Trip blank sent to the AGEM Laboratory for organic analyses with water sample listed on COC 4753.
9/9/06	12:00	BAQCTB-S-21919 ^c	Soil	TB	QC	–	4754	9/9/06	Trip blank sent to the AGEM Laboratory for organic analyses with soil samples listed on COCs 4749, 4751, 4752, and 4754.
9/11/06	13:57	BAMW11-W-21903 ^e	Water	MW	MW11M	90-100	4766	9/11/06	Intermediate well. Sampled during development. Depth to water from TOC = 95.7 ft. Minimal water available. Well pumped dry after purging of 1 gal. Sampled after recovery.
9/11/06	14:13	BAMW11-W-21904 ^e	Water	MW	MW11S	40-50	4766	9/11/06	Shallow well. Depth to water from TOC = 31.4 ft. Depth of well = 50.1 ft. Sampled during development after purging of 15 gal. Clear.
9/11/06	14:30	BAMW11-W-21902 ^e	Water	MW	MW11D	125-135	4766	9/11/06	Deep well. Preliminary sample collected after partial development of well and purging of approximately 1100 gal. Additional development needed. Static water level at 119 ft. Sample clear.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
9/11/06	15:00	BAQCTB-W-21905 ^c	Water	TB	QC	–	4766	9/11/06	Trip blank sent to the AGEM Laboratory for organic analyses with water sample listed on COC 4766.
9/12/06	13:22	BAMW12-W-21906 ^e	Water	MW	MW12M	90-100	4763	9/13/06	Intermediate well. Depth to water from TOC = 86.40 ft. Depth of well = 102.0 ft. Sample collected during development after purging of 100 gal.
9/12/06	13:57	BAMW12-W-21907 ^e	Water	MW	MW12S	43-53	4763	9/13/06	Shallow well. Depth to water from TOC = 55.50 ft. Depth of well = 56.10 ft. Well pumped dry after purging of 1/8 gal. Sampled after recovery, although only minimal water was available.
9/12/06	14:38	BAMW12-W-21908 ^e	Water	MW	MW12D	115-125	4763	9/13/06	Deep well. Depth to water from TOC = 113.1 ft. Depth of well = 127.9 ft. Sample collected after overnight development, with purging of 1100 gal.
9/13/06	13:15	BAQCTB-W-21910 ^c	Water	TB	QC	–	4763	9/13/06	Trip blank sent to the AGEM Laboratory for organic analyses with water sample listed on COC 4763.
9/13/06	15:45	BAMW11-W-21909 ^e	Water	MW	MW11D	125-135	4763	9/13/06	Sample collected after purging of an additional 450 gal with the Redi-Flo pump at 1-2 gpm to complete development of well.
9/13/06	15:45	BAQCDP-W-21911 ^{c,e}	Water	MW	MW11D	125-135	4763	9/13/06	Replicate of sample BAMW11-W-21909.
9/13/06	16:00	BAPUR6-W-21912 ^c	Water	BT	QC	–	4763	9/13/06	Composite sample of purging/development water from nested monitoring wells at MW11 and MW12 locations, which had been containerized in three 1500-gal tanks.
9/13/06	16:30	Sedivy1; dry ^e	Water	DW	Sedivy1	90	–	–	Sedivy1 well is in the residence's backyard. Well dry at approximately 90 ft BGL.
9/13/06	17:00	BASED2-W-21913	Water	DW	Sedivy	138	4763	9/13/06	Sedivy well. Depth to water = 124.3 ft. Depth of well = 138 ft. Sample collected after pumping dry at 10 gal. Well has no cover; it is exposed to the elements. Well is built into concrete slab adjacent to house, on site protected from surface water runoff.
9/14/06	9:45	BA-MEOH-91306 ^c	Soil	TB	QC	–	4037	9/14/06	Trip blank sent to Severn-Trent Laboratories for verification organic analysis with soil samples listed on COC 4037.
2/27/07	12:25	BAMW13-S-21851	Soil	SB	MW13	4	4183	2/28/07	Vertical-profile subsurface soil sampling northwest of former CCC/USDA property, east of Main Street.
2/27/07	12:33	BAMW13-S-21852	Soil	SB	MW13	7	4183	2/28/07	
2/27/07	12:40	BAMW13-S-21853	Soil	SB	MW13	12	4183	2/28/07	
2/27/07	12:51	BAMW13-S-21854	Soil	SB	MW13	17	4183	2/28/07	
2/27/07	13:00	BAMW13-S-21855	Soil	SB	MW13	22	4183	2/28/07	
2/27/07	13:44	BAMW13-S-21745	Soil	SB	MW13	27	4183	2/28/07	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
2/27/07	14:12	BAMW13-S-21694	Soil	SB	MW13	32	4183	2/28/07	
2/27/07	14:20	BAMW13-S-21695	Soil	SB	MW13	38	4183	2/28/07	
2/27/07	14:50	BAMW13-S-21921	Soil	SB	MW13	41.5	4183	2/28/07	
2/27/07	15:15	BAMW13-S-21922	Soil	SB	MW13	45	4183	2/28/07	
2/27/07	15:39	BAMW13-S-21923	Soil	SB	MW13	50	4183	2/28/07	
2/27/07	15:45	BAMW13-S-21924	Soil	SB	MW13	55	4183	2/28/07	
2/27/07	16:13	BAMW13-S-21925	Soil	SB	MW13	60	4183	2/28/07	
2/27/07	16:20	BAMW13-S-21914	Soil	SB	MW13	65	4183	2/28/07	
2/27/07	16:55	BAMW13-S-21915	Soil	SB	MW13	70	4183	2/28/07	
2/27/07	17:22	BAMW13-S-21926	Soil	SB	MW13	75	3690	2/28/07	
2/27/07	18:01	BAMW13-S-21927	Soil	SB	MW13	78	3690	2/28/07	
2/27/07	18:10	BAMW13-S-21928	Soil	SB	MW13	83	3690	2/28/07	
2/27/07	18:16	BAMW13-S-21929	Soil	SB	MW13	88	3690	2/28/07	
2/27/07	18:30	BAQCTB-S-21935 ^c	Soil	TB	QC	–	3690	2/28/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4183 and 3690.
2/28/07	7:48	BAMW13-S-21930	Soil	SB	MW13	94	3690	2/28/07	
2/28/07	7:52	BAMW13-S-21931	Soil	SB	MW13	99	3690	2/28/07	
2/28/07	8:24	BAMW13-S-21932	Soil	SB	MW13	104	3690	2/28/07	
2/28/07	9:12	BAMW13-S-21933	Soil	SB	MW13	107	3690	2/28/07	
2/28/07	9:17	BAMW13-S-21934	Soil	SB	MW13	113	3690	2/28/07	
2/28/07	9:44	BAMW13-S-21936	Soil	SB	MW13	119	3690	2/28/07	
2/28/07	10:27	BAMW13-S-21937	Soil	SB	MW13	124	3690	2/28/07	
2/28/07	10:35	BAMW13-S-21938	Soil	SB	MW13	129	3690	2/28/07	
2/28/07	11:40	BAMW13-W-21946 ^e	Water	SB	MW13	132-135	3693	2/28/07	West side of ballfield. Turbid sample collected from open borehole without purging.
2/28/07	13:50	BADRILLFLUID-W-21947 ^c	Water	FB	QC	–	3693	2/28/07	Drilling fluid water and water for equipment decontamination from public water supply system.
2/28/07	14:20	BAQCTB-W-21948 ^c	Water	TB	QC	–	3693	2/28/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 3693.
3/2/07	7:31	BAMW14-S-21939	Soil	SB	MW14	3.5	4525	3/2/07	Vertical-profile subsurface soil sampling northwest of CCC/USDA site, south of Third Street.
3/2/07	7:55	BAMW14-S-21940	Soil	SB	MW14	8	4525	3/2/07	
3/2/07	8:00	BAMW14-S-21941	Soil	SB	MW14	13	4525	3/2/07	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
3/2/07	8:17	BAMW14-S-21942	Soil	SB	MW14	18	4525	3/2/07	
3/2/07	8:30	BAMW14-S-21943	Soil	SB	MW14	22	4525	3/2/07	
3/2/07	9:00	BAMW14-S-21944	Soil	SB	MW14	27	4525	3/2/07	
3/2/07	9:20	BAMW14-S-21945	Soil	SB	MW14	32	4525	3/2/07	
3/2/07	9:30	BAMW14-S-21949	Soil	SB	MW14	37	4525	3/2/07	
3/2/07	9:48	BAMW14-S-21950	Soil	SB	MW14	42	4525	3/2/07	
3/2/07	10:35	BAMW14-S-21951	Soil	SB	MW14	49	4525	3/2/07	
3/2/07	10:40	BAMW14-S-21952	Soil	SB	MW14	52	4525	3/2/07	
3/2/07	11:14	BAMW14-S-21953	Soil	SB	MW14	57	4525	3/2/07	
3/2/07	11:54	BAMW14-S-21954	Soil	SB	MW14	62	4525	3/2/07	
3/2/07	12:33	BAMW14-S-21955	Soil	SB	MW14	67	4525	3/2/07	
3/2/07	13:24	BAMW14-S-21956	Soil	SB	MW14	72	4525	3/2/07	
3/2/07	13:49	BAMW14-S-21957	Soil	SB	MW14	77	4526	3/2/07	
3/2/07	13:55	BAMW14-S-21958	Soil	SB	MW14	82	4526	3/2/07	
3/2/07	14:22	BAMW14-S-21959	Soil	SB	MW14	87	4526	3/2/07	
3/2/07	14:52	BAMW14-S-21960	Soil	SB	MW14	92	4526	3/2/07	
3/2/07	15:00	BAMW14-S-21961	Soil	SB	MW14	97	4526	3/2/07	
3/2/07	15:10	BAQCTB-S-21962 ^c	Soil	TB	QC	–	4526	3/2/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4525 and 4526.
3/2/07	15:27	BAMW14-S-21963	Soil	SB	MW14	102	3691	3/5/07	
3/2/07	16:07	BAMW14-S-21964	Soil	SB	MW14	107	3691	3/5/07	
3/2/07	16:31	BAMW14-S-21965	Soil	SB	MW14	112	3691	3/5/07	
3/2/07	16:35	BAMW14-S-21966	Soil	SB	MW14	117	3691	3/5/07	
3/2/07	17:05	BAMW14-S-21967	Soil	SB	MW14	122	3691	3/5/07	
3/4/07	11:15	BAMW6-S-21968	Soil	SB	MW6	4	3691	3/5/07	Vertical-profile subsurface soil sampling off the southeast corner of the former CCC/USDA property.
3/4/07	11:20	BAMW6-S-21969	Soil	SB	MW6	9	3691	3/5/07	
3/4/07	11:33	BAMW6-S-21970	Soil	SB	MW6	14	3691	3/5/07	
3/4/07	11:39	BAMW6-S-21971	Soil	SB	MW6	19	3691	3/5/07	
3/4/07	11:50	BAMW6-S-21972	Soil	SB	MW6	24	3691	3/5/07	
3/4/07	12:26	BAMW6-S-21973	Soil	SB	MW6	29	3691	3/5/07	
3/4/07	12:35	BAMW6-S-21974	Soil	SB	MW6	34	3691	3/5/07	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
3/4/07	12:53	BAMW6-S-21975	Soil	SB	MW6	39	3691	3/5/07	
3/4/07	13:09	BAMW6-S-21976	Soil	SB	MW6	44	3691	3/5/07	
3/4/07	13:12	BAMW6-S-21977	Soil	SB	MW6	49	3691	3/5/07	
3/4/07	13:36	BAMW6-S-21978	Soil	SB	MW6	54	3692	3/5/07	
3/4/07	14:10	BAMW6-S-21979	Soil	SB	MW6	59	3692	3/5/07	
3/4/07	14:42	BAMW6-S-21980	Soil	SB	MW6	64	3692	3/5/07	
3/4/07	15:00	BAMW6-S-21981	Soil	SB	MW6	69	3692	3/5/07	
3/4/07	15:39	BAMW6-S-21982	Soil	SB	MW6	74	3692	3/5/07	
3/4/07	16:00	BAMW6-S-21983	Soil	SB	MW6	79	3692	3/5/07	
3/4/07	16:30	BAMW6-S-21984	Soil	SB	MW6	84	3692	3/5/07	
3/4/07	16:40	BAMW6-S-21985	Soil	SB	MW6	89	3692	3/5/07	
3/4/07	16:55	BAMW6-S-17258	Soil	SB	MW6	94	3692	3/5/07	
3/4/07	17:20	BAMW6-S-17259	Soil	SB	MW6	99	3692	3/5/07	
3/4/07	17:30	BAMW6-S-17260	Soil	SB	MW6	104	3692	3/5/07	
3/5/07	8:44	BAMW6-W-17263 ^e	Water	SB	MW6	0-125	3694	3/5/07	Southeast corner of former CCC/USDA property. Sample collected without purging from open borehole, to indicated depth.
3/5/07	8:50	BADRILLFLUID-W-17264 ^c	Water	FB	QC	–	3694	3/5/07	Sample collected from water supply tank during drilling of MW6. Water from public water supply system.
3/5/07	10:00	BAQCTB-S-17267 ^c	Soil	TB	QC	–	3692	3/5/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 3691 and 3692.
3/5/07	14:02	BAMW14D-W-17265 ^e	Water	MW	MW14D	123-133	3694	3/5/07	North side of ballfield. Sample collected without purging. Preliminary sample for field evaluation.
3/5/07	14:11	BAMW14S-W-17266 ^e	Water	MW	MW14S	108-118	3694	3/5/07	North side of ballfield. Depth to water = 115.23 ft. Depth of hole at 118 ft. Little water. Sample collected after minimal purging.
3/5/07	15:01	BAQCTB-W-17268 ^c	Water	TB	QC	–	3694	3/5/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 3694.
3/6/07	12:25	BAMW15-S-17268	Soil	SB	MW15	4	3695	3/6/07	Vertical-profile subsurface soil sampling north of former CCC/USDA property.
3/6/07	12:30	BAMW15-S-17269	Soil	SB	MW15	9	3695	3/6/07	
3/6/07	12:36	BAMW15-S-17270	Soil	SB	MW15	14	3695	3/6/07	
3/6/07	12:49	BAMW15-S-17271	Soil	SB	MW15	19	3695	3/6/07	
3/6/07	13:00	BAMW15-S-17272	Soil	SB	MW15	24	3695	3/6/07	
3/6/07	13:15	BAMW15-S-17273	Soil	SB	MW15	29	3695	3/6/07	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
3/6/07	13:20	BAMW15-S-17274	Soil	SB	MW15	34	3695	3/6/07	
3/6/07	13:41	BAMW15-S-17275	Soil	SB	MW15	39	3695	3/6/07	
3/6/07	13:50	BAMW15-S-17276	Soil	SB	MW15	44	3695	3/6/07	
3/6/07	14:00	BAMW15-S-17277	Soil	SB	MW15	49	3695	3/6/07	
3/6/07	14:10	BAMW15-S-17278	Soil	SB	MW15	54	3695	3/6/07	
3/6/07	15:20	BAMW15-S-17279	Soil	SB	MW15	59	3695	3/6/07	
3/6/07	15:30	BAMW15-S-17280	Soil	SB	MW15	64	3695	3/6/07	
3/6/07	15:40	BAQCTB-S-17282 ^c	Soil	TB	QC	–	3695	3/6/07	Trip blank sent the AGEM Laboratory with soil samples listed on COC 3695.
3/6/07	15:46	BAMW15-S-17283	Soil	SB	MW15	69	3697	3/7/07	
3/6/07	15:55	BAMW15-S-17285	Soil	SB	MW15	74	3697	3/7/07	
3/6/07	16:17	BAMW15-S-17286	Soil	SB	MW15	79	3697	3/7/07	
3/6/07	16:27	BAMW15-S-17287	Soil	SB	MW15	84	3697	3/7/07	
3/6/07	16:38	BAMW15-S-17288	Soil	SB	MW15	89	3697	3/7/07	
3/6/07	16:45	BAMW15-S-17289	Soil	SB	MW15	94	3697	3/7/07	
3/6/07	16:46	BAMW15-S-17290 ^c	Soil	SB	MW15	94	3697	3/7/07	Replicate of sample BAMW15-S-17289.
3/6/07	16:51	BAMW15-S-17291	Soil	SB	MW15	99	3697	3/7/07	
3/6/07	16:57	BAMW15-S-17292	Soil	SB	MW15	104	3697	3/7/07	
3/6/07	17:00	BAMW15-W-17293 ^e	Water	SB	MW15	91-115	3696	3/6/07	In drainage draw north of former CCC/USDA property. Sample collected without purging from open borehole, to indicated depth. Water level at 91 ft BGL.
3/6/07	17:45	BAQCTB-W-17294 ^c	Water	TB	QC	–	3696	3/6/07	Trip blank sent to the AGEM Laboratory with water sample listed on COC 3696.
3/7/07	13:59	BAMW6D-W-17300 ^e	Water	MW	MW6D	105-115	4527	3/7/07	Southeast of former CCC/USDA property. Depth to water = 105.35 ft. Sample collected during development after purging of 75 gal.
3/7/07	14:50	BAMW6S-W-17299 ^e	Water	MW	MW6S	90.5-100.5	4527	3/7/07	Southeast of former CCC/USDA property. Depth to water = 94 ft. Sample collected during development after purging of 4 gal.
3/7/07	15:00	BAQCTB-S-17298 ^c	Soil	TB	QC	–	3697	3/7/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 3697.
3/7/07	15:00	BAQCTB-W-17301 ^c	Water	TB	QC	–	4527	3/7/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4527.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
3/8/07	7:37	BAMW14D-W-22486 ^e	Water	MW	MW14D	123-133	4535	3/8/07	North side of ballfield. Depth to water = 115.9 ft. Depth of well = 133.2 ft. Sample collected during development after purging of 825 gal.
3/8/07	12:15	BAMW16D-S-17302	Soil	SB	MW16	4	4536	3/9/07	Vertical-profile subsurface soil sampling northeast of former CCC/USDA property.
3/8/07	12:20	BAMW16D-S-17303	Soil	SB	MW16	9	4536	3/9/07	
3/8/07	12:23	BAMW16D-S-17304	Soil	SB	MW16	14	4536	3/9/07	
3/8/07	12:35	BAMW16D-S-17305	Soil	SB	MW16	19	4536	3/9/07	
3/8/07	12:49	BAMW16D-S-17306	Soil	SB	MW16	24	4536	3/9/07	
3/8/07	12:52	BAMW16D-S-17307	Soil	SB	MW16	29	4536	3/9/07	
3/8/07	13:15	BAMW16D-S-22491	Soil	SB	MW16	34	4536	3/9/07	
3/8/07	13:41	BAMW16D-S-22492	Soil	SB	MW16	39	4536	3/9/07	
3/8/07	13:45	BAMW16D-S-22493	Soil	SB	MW16	44	4536	3/9/07	
3/8/07	14:16	BAMW16D-S-22494	Soil	SB	MW16	50	4536	3/9/07	
3/8/07	14:18	BAMW13D-W-22487 ^e	Water	MW	MW13D	127-137	4535	3/8/07	West side of ballfield. Depth to water = 123.8 ft. Depth of well = 136.3 ft. Sample collected during development after purging of 1100 gal.
3/8/07	14:39	BAMW16D-S-22495	Soil	SB	MW16	60	4536	3/9/07	
3/8/07	15:05	BAMW14S-W-22488 ^e	Water	MW	MW14S	108-118	4535	3/8/07	North side of ballfield. Depth to water = 115.23 ft. Depth of well = 117.5 ft. Sample collected during development after purging of 6 gal. Well went dry during purging.
3/8/07	15:10	BAMW16D-S-22496	Soil	SB	MW16	65	4536	3/9/07	
3/8/07	15:17	BAQCTB-S-22507 ^c	Soil	TB	QC	–	4536	3/9/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 4536.
3/8/07	15:20	BAMW16D-S-22497	Soil	SB	MW16	70	4536	3/9/07	
3/8/07	16:05	BAMW16-W-22506 ^e	Water	SB	MW16	0-102	4535	3/8/07	Northeast of former CCC/USDA property. Sample collected without purging from open borehole, to indicated depth.
3/8/07	16:10	BAQCTB-W-22490 ^c	Water	TB	QC	–	4535	3/8/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4535.
3/8/07	16:15	BAMW13S-W-22489 ^e	Water	MW	MW13S	112-122	4535	3/8/07	West side of ballfield. Depth to water = 102.35 ft. Depth of well = 121.75 ft. Sample collected during development after purging of 250 gal.
3/9/07	10:50	BAMW15D-W-22508 ^e	Water	MW	MW15D	105-115	4128	3/9/07	North of former CCC/USDA property. Depth to water = 89.8 ft. Depth of well = 115.7 ft. Sample collected during development, after purging of 50 gal.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
3/9/07	11:05	BAMW16S-W-22513 ^e	Water	MW	MW16S	76-86	4128	3/9/07	Northeast of former CCC/USDA property. Depth to water = 81.45 ft. Depth of well = 86.15 ft. Sample collected during development after purging of 5 to 6 gal. Water tan.
3/9/07	13:58	BAMW15S-W-22509 ^e	Water	MW	MW15S	88-98	4128	3/9/07	North of former CCC/USDA property. Depth to water = 92.3 ft. Depth of well = 98.5 ft. Sampled during development.
3/9/07	14:15	BAPWS2-W-22510	Water	PW	PWS2	155	4128	3/9/07	Well had been pumping on the day of sampling.
3/9/07	14:20	BAPWS3-W-22511	Water	PW	PWS3	160	4128	3/9/07	Well had been pumping on the day of sampling.
3/9/07	15:30	BAQCTB-W-22512 ^c	Water	TB	QC	—	4128	3/9/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4128.
3/9/07	16:15	BAMW17-S-22514	Soil	SB	MW17	5	4142	3/10/07	Vertical-profile subsurface soil sampling west of the former CCC/USDA property, west of Main Street and east of public wells.
3/9/07	16:27	BAMW17-S-22515	Soil	SB	MW17	10	4142	3/10/07	
3/9/07	16:33	BAMW17-S-22516	Soil	SB	MW17	15	4142	3/10/07	
3/9/07	16:39	BAMW17-S-22517	Soil	SB	MW17	20	4142	3/10/07	
3/9/07	16:58	BAMW17-S-22518	Soil	SB	MW17	25	4142	3/10/07	
3/9/07	17:02	BAMW17-S-22519	Soil	SB	MW17	30	4142	3/10/07	
3/9/07	17:20	BAMW17-S-22520	Soil	SB	MW17	35	4142	3/10/07	
3/9/07	17:40	BAMW17-S-22521	Soil	SB	MW17	40	4142	3/10/07	
3/9/07	18:08	BAMW17-S-22522	Soil	SB	MW17	45	4142	3/10/07	
3/9/07	18:32	BAMW17-S-22523	Soil	SB	MW17	50	4142	3/10/07	
3/10/07	7:35	BAMW17-S-22524	Soil	SB	MW17	55	4142	3/10/07	
3/10/07	7:58	BAMW17-S-22525	Soil	SB	MW17	60	4142	3/10/07	
3/10/07	8:25	BAMW17-S-22526	Soil	SB	MW17	65	4142	3/10/07	
3/10/07	8:30	BAMW17-S-22527	Soil	SB	MW17	70	4142	3/10/07	
3/10/07	8:59	BAMW17-S-22532	Soil	SB	MW17	75	4142	3/10/07	
3/10/07	9:05	BAMW17-S-22533	Soil	SB	MW17	80	4539	3/10/07	
3/10/07	9:25	BAMW17-S-22534	Soil	SB	MW17	85	4539	3/10/07	
3/10/07	9:35	BAMW17-S-22535	Soil	SB	MW17	90	4539	3/10/07	
3/10/07	9:58	BAMW17-S-22537	Soil	SB	MW17	95	4539	3/10/07	
3/10/07	9:59	BAMW17-S-22538	Soil	SB	MW17	100	4539	3/10/07	
3/10/07	10:32	BAMW17-S-22539	Soil	SB	MW17	105	4539	3/10/07	
3/10/07	10:35	BAMW17-S-22540	Soil	SB	MW17	110	4539	3/10/07	

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
3/10/07	10:59	BAMW17-S-22541	Soil	SB	MW17	115	4539	3/10/07	
3/10/07	11:24	BAMW17-S-22542	Soil	SB	MW17	120	4539	3/10/07	
3/10/07	11:55	BAMW17-W-22545 ^e	Water	SB	MW17	0-130	4538	3/10/07	West of old school between MW1S and MW1D. Sample collected without purging from open borehole. Depth to water = 121.5 ft.
3/10/07	12:02	BAMW16D-W-22544 ^e	Water	MW	MW16D	90-100	4538	3/10/07	Northeast of former CCC/USDA property. Depth to water 81.1 ft. Depth of well = 100 ft. Sample collected during development after purging of 50 gal. Water gray.
3/10/07	13:30	BAQCTB-S-22543 ^c	Soil	TB	QC	—	4539	3/10/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4142 and 4539.
3/10/07	13:30	BAMW16S-W-22546 ^e	Water	MW	MW16S	76-86	4538	3/10/07	Northeast of former CCC/USDA property. Depth to water = 81.45 ft. Depth of well = 86.15 ft. Sample collected during development, after purging of 5 to 6 gal. Water tan.
3/10/07	13:45	BAQCTB-W-22547 ^c	Water	TB	QC	—	4538	3/10/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4538.
3/12/07	11:10	BA-S-Blank-31207 ^c	Soil	TB	QC	—	4040	3/12/07	Trip blank sent to Severn Trent Laboratories for verification organic analysis with soil samples listed on COC 4040.
3/13/07	10:00	BAQCTB-W-31307 ^c	Water	TB	QC	—	4041	3/13/07	Trip blank sent to EnviroSystems, Inc., for verification organic analysis with water samples listed on COC 4041.
3/20/07	10:00	BA-S-Blank-32007 ^c	Soil	TB	QC	—	4042	3/20/07	Trip blank sent to Severn Trent Laboratories for verification organic analysis with soil samples listed on COC 4042.
4/4/07	10:00	BAMW15D-W-22561	Water	MW	MW15D	105-115	4598	4/5/07	Depth to water from TOC = 88.3 ft. Depth of well = 114.9 ft. Sample collected at low flow after purging of 15 gal with Redi-Flo pump at < 1 gpm.
4/4/07	10:15	BAMW6S-not sampled ^d	Water	MW	MW6S	90.5-100.5	—	—	Well was dry.
4/4/07	11:06	BAMW15S-W-22560	Water	MW	MW15S	88-98	4598	4/5/07	Depth to water from TOC = 91.5 ft. Depth of well = 96 ft. Sample collected by using valved tube after purging of 3 gal.
4/4/07	11:56	BAMW16D-W-22562	Water	MW	MW16D	90-100	4598	4/5/07	Depth to water from TOC = 79.71 ft. Depth of well = 99.6 ft. Sample collected at low flow after purging of 12 gal with Redi-Flo pump at <1 gpm.
4/4/07	12:07	BAMW16S-W-22563	Water	MW	MW16S	76-86	4598	4/5/07	Depth to water from TOC = 81.0 ft. Depth of well = 86.1 ft. Sample collected by using valved tube after purging of 2.6 gal.
4/4/07	14:05	BAMW2D-W-22564	Water	MW	MW2D	133.26-152.93	4598	4/5/07	Depth to water from TOC = 130.17 ft. Depth of well = 153.45 ft. Sample collected at low flow after purging of 12 gal with Redi-Flo pump at 0.5 gpm.
4/4/07	14:30	BAMW1S-not sampled ^d	Water	MW	MW1S	13.3-23.3	—	—	Well was dry. Depth of well = 23.9 ft.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Typea	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
4/4/07	15:07	BAMW1D-W-22565	Water	MW	MW1D	139.85-159.4	4598	4/5/07	Depth to water from TOC = 132.5 ft. Depth of well = 159.1 ft. Sample collected at low flow after purging of 15 gal with Redi-Flo pump at 0.5 gpm.
4/4/07	15:57	BAMW17D-W-22566	Water	MW	MW17	120-130	4598	4/5/07	Depth to water from TOC = 110.68 ft. Depth of well = 131.4 ft. Sample collected at low flow after purging of 12 gal with Redi-Flo pump at 0.5 gpm.
4/4/07	17:10	BAMW3D-W-22567	Water	MW	MW3D	133.02-152.73	4598	4/5/07	Depth to water from TOC = 126.64 ft. Depth of well = 152.57 ft. Sample collected at low flow after purging of 15 gal with Redi-Flo pump at 0.5 gpm.
4/4/07	18:07	BAMW14S-W-22569	Water	MW	MW14S	108-118	4598	4/5/07	Depth to water from TOC = 114.6 ft. Depth of well = 117.5 ft. Sample collected by using valved tube after purging of 1.5 gal.
4/4/07	18:09	BAMW14D-W-22568	Water	MW	MW14D	123-133	4598	4/5/07	Depth to water from TOC = 114.00 ft. Depth of well = 133.2 ft. Sample collected at low flow after purging of 14.7 gal with Redi-Flo pump at 0.5 gpm.
4/4/07	18:54	BAMW11D-W-22571	Water	MW	MW11D	125-135	4598	4/5/07	Depth to water from TOC = 117.15 ft. Depth of well = 134.5 ft. Sample collected at low flow after purging of 9 gal with Redi-Flo pump at 0.5 gpm.
4/4/07	19:05	BAMW11S-W-22570	Water	MW	MW11S	40-50	4598	4/5/07	Depth to water from TOC = 25.9 ft. Depth of well = 49.65 ft. Sample collected by using valved tube after purging of 3 gal.
4/5/07	10:00	BAMW6D-W-22573	Water	MW	MW6D	105-115	4599	4/5/07	Depth to water from TOC = 105.0 ft. Depth of well = 115.5 ft. Sample collected at low flow after purging of 5.3 gal with Redi-Flo pump at 0.5 gpm.
4/5/07	10:53	BAMW13D-W-22574	Water	MW	MW13D	127-137	4599	4/5/07	Depth to water from TOC = 124.67 ft. Depth of well = 136.14 ft. Sample collected at low flow after purging of 6 gal with Redi-Flo pump at 0.5 gpm.
4/5/07	11:35	BAMW11M-W-22572	Water	MW	MW11M	90-100	4599	4/5/07	Depth to water from TOC = 89.3 ft. Depth of well = 99.7 ft. Sample collected by using valved tube after purging of 6 gal.
4/5/07	11:56	BAMW13S-W-22575	Water	MW	MW13S	112-122	4599	4/5/07	Depth to water from TOC = 101.0 ft. Depth of well = 121.7 ft. Sample collected by using valved tube after purging of 11 gal.
4/5/07	12:40	BAPW3-W-22577	Water	PW	PWS3	160	4599	4/5/07	Well had been pumping all day. Sampled from tap in wellhouse after letting allowing water to run for 2 min.
4/5/07	12:44	BAPW2-W-22578	Water	PW	PWS2	155	4599	4/5/07	Sampled from tap in wellhouse after allowing water to run for 5-10 min.
4/5/07	13:05	BAMW12D-W-22576	Water	MW	MW12D	125	4599	4/5/07	Depth to water from TOC = 110.2 ft. Depth of well = 124.7 ft. Sample collected at low flow after purging of 7.5 gal with Redi-Flo pump at < 1 gpm.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
4/5/07	13:50	BAMW12M-W-22580	Water	MW	MW12M	90-100	4599	4/5/07	Depth to water from TOC = 81.05 ft. Depth of well = 99.0 ft. Sample collected at low flow after purging of 9 gal with Redi-Flo pump at < 1 gpm. Well purged dry after 4 gal but recovered quickly; purging continued.
4/5/07	14:00	BAMW12S-not sampled ^d	Water	MW	MW12S	43-53	—	—	Well was dry. Depth of well = 23.9 ft.
4/5/07	14:40	BAQCTB-W-22581a ^c	Water	TB	QC	—	4599	4/5/07	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COCs 4598 and 4599.
4/5/07	14:40	BAQCTB-W-22581b ^c	Water	TB	QC	—	4599	4/5/07	Trip blank sent to Envirosystems for verification organic analysis with water samples listed on COCs 4595 and 4596.
4/5/07	14:50	BAMW9-W-22582	Water	MW	MW9	100-110	4599	4/5/07	Depth to water from TOC = 102.9 ft. Depth of well = 113.25 ft. Sample collected at low flow after purging of 5.25 gal with Redi-Flo pump at 0.5 gpm.
4/5/07	16:37	BAOENTRICH-W-22579	Water	DW	Oentrich	150	3297	4/6/07	Oentrich private well. Sampled after allowing water to run for 5 to 10 min.
4/6/07	8:45	BAMW4D-W-22583	Water	MW	MW4D	98.38-118.22	4600	4/6/07	Depth to water from TOC = 108.0 ft. Depth of well = 115.4 ft. Sample collected at low flow after purging of 3.75 gal with Redi-Flo pump at 0.25 gpm.
4/6/07	9:15	BAMW8-W-22584	Water	MW	MW8	110-120	4600	4/6/07	Depth to water from TOC = 111.71 ft. Depth of well = 121.0 ft. Sample collected at low flow after purging of 5.25 gal with Redi-Flo pump at 0.5 gpm.
4/6/07	9:54	BAMW10D-W-22585	Water	MW	MW10D	115-125	4600	4/6/07	Depth to water from TOC = 113.14 ft. Depth of well = 125.1 ft. Sample collected at low flow after purging of 6 gal with Redi-Flo pump at <0.5 gpm.
4/6/07	10:57	BAMW10S-W-22586	Water	MW	MW10S	93-103	4600	4/6/07	Depth to water from TOC = 82.55 ft. Depth of well = 103.0 ft. Sample collected at low flow after purging of 10 gal with Redi-Flo pump. Well went dry after purging of 6 gal. Sampled after 30 min of recovery, following additional purging of 4 gal.
4/6/07	11:12	BAQCRI-W-22587 ^c	Water	RI	QC	—	4600	4/6/07	Rinsate of decontaminated Redi-Flo tubing.
4/6/07	12:07	BAMW7-W-22588	Water	MW	MW7	116-126	4600	4/6/07	Depth to water from TOC = 111.11 ft. Depth of well = 125.6 ft. Sample collected at low flow after purging of 7.5 gal with Redi-Flo pump. Well went dry (or too silty) after purging of 4 gal. Sampled after 15 min of recovery, following additional purging of 3.5 gal.
4/6/07	13:25	BAMW5-W-22589	Water	MW	MW5	110-120	4600	4/6/07	Depth to water from TOC = 108.4 ft. Depth of well = 119.9 ft. Sample collected at low flow after purging of 6 gal with Redi-Flo pump at 0.5 gpm.
4/6/07	13:26	BAMW5DUP-W-22592 ^c	Water	MW	MW5	110-120	4600	4/6/07	Replicate of sample BAMW5-W-22589.

TABLE E.1 (Cont.)

Sampling Date	Time	Sample	Medium	Type ^a	Location	Depth (ft TOC)	Chain of Custody	Shipping Date	Sample Description
4/6/07	14:20	BAQCTB-W-22590 ^c	Water	TB	QC	–	4600	4/6/07	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COCs 4600 and 3297.
4/6/07	14:30	BAPURGE-W-22591 ^c	Water	BT	QC	–	4600	4/6/07	

^a Sample types: BT, wastewater composite; DW, domestic well; FB, field blank; MW, monitoring well; PW, public water supply well; RI, rinsate; SB, soil boring; TB, trip blank.

^b Feet below the top of the casing.

^c Quality control sample collected to monitor sample collection and handling.

^d Well was dry and was not sampled.

^e Field evaluation sample collected prior to adequate development or purging. Shipped for quick-turnaround analysis. Not reported as part of the official data set generated by the investigation.

Appendix F:
Coordinates Survey Data

TABLE F.1 Coordinates survey data for the 2006-2007 Investigation at Barnes.

Location	Horizontal Location ^a (ft)		Elevation ^b (ft AMSL)	
	Northing	Easting	Ground	Top of Casing
<i>Existing KDHE wells</i>				
MW1S	505580.36	1628728.63	1352.05	1351.58
MW1D	505570.77	1628729.19	1352.18	1351.33
MW02D	505846.12	1628605.21	1349.02	1348.85
MW03D	505199.31	1628814.21	1346.36	1345.99
MW04D	505267.63	1629556.28	1327.26	1326.32
<i>Wells installed during the 2006-2007 investigation</i>				
MW05	505321.41	1629845.80	1327.66	1327.20
MW06D	505173.25	1630005.83	1323.88	1323.15
MW06S	505173.18	1630005.54	1323.88	1323.13
MW07	505206.48	1629841.19	1330.53	1329.91
MW08	505198.46	1629565.42	1330.78	1330.06
MW09	505354.26	1629513.16	1319.10	1321.86 ^c
MW10S	505276.99	1629689.01	1331.57	1331.33
MW10D	505276.79	1629688.89	1331.57	1331.33
MW11S	505409.96	1629113.25	1336.70	1336.58
MW11M	505410.05	1629113.50	1336.70	1336.51
MW11D	505410.36	1629113.38	1336.70	1336.53
MW12S	505590.84	1629344.72	1327.99	1327.46
MW12M	505590.75	1629344.69	1327.99	1327.46
MW12D	505590.89	1629344.28	1327.99	1327.52
MW13S	505573.93	1629007.47	1342.92	1342.36
MW13D	505574.02	1629007.19	1342.92	1342.37
MW14S	505853.10	1629147.17	1333.08	1332.69
MW14D	505853.13	1629146.96	1333.08	1332.74
MW15S	505700.93	1629667.21	1309.65	1309.34
MW15D	505700.79	1629667.33	1309.65	1309.29
MW16S	505608.90	1630302.31	1299.98	1299.47
MW16D	505603.66	1630301.14	1299.98	1299.52
MW17	505575.80	1628729.18	1352.03	1351.77
<i>Private well</i>				
Oentrich	504902.75	1629535.32	1342.47	1336.93

^a Coordinates are in the State Plane, Kansas northern zone.
Horizontal datum is North American Datum (NAD) 83.

^b Vertical datum is North American Vertical Datum (NAVD) 29.

^c Aboveground completion.

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Supplement 1:

Complete Analytical Data for Soil Samples

TABLE S1.1 Analytical results for volatile organic compounds in vertical-profile soil samples collected at Barnes in 2006-2007.

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW5	BAMW5-S-21696	4.5	7/31/06	ND ^a	ND	ND
MW5	BAMW5-S-21697	8	7/31/06	ND	ND	ND
MW5	BAMW5-S-21698	12	7/31/06	ND	ND	ND
MW5	BAMW5-S-21699	16.5	7/31/06	ND	ND	ND
MW5	BAMW5-S-21700	19	7/31/06	ND	ND	ND
MW5	BAMW5-S-21701	20	7/31/06	ND	ND	ND
MW5	BAMW5-S-21702	24	7/31/06	ND	ND	ND
MW5	BAMW5-S-21703	28	7/31/06	12	ND	ND
MW5	BAMW5-S-21704	33	7/31/06	25	ND	ND
MW5	BAMW5-S-21706	39	7/31/06	40	1.9 J ^b	ND
MW5	BAMW5-S-21707	42.5	7/31/06	4.4 J	ND	ND
MW5	BAMW5-S-21708	45.5	8/1/06	3.6 J	5.6 J	ND
MW5	BAMW5-S-21709	58.8	8/1/06	7.4 J	ND	ND
MW5	BAMW5-S-21710	71.5	8/1/06	2.3 J	6.5 J	ND
MW6	BAMW6-S-21968	4	3/4/07	ND	ND	ND
MW6	BAMW6-S-21969	9	3/4/07	ND	ND	ND
MW6	BAMW6-S-21970	14	3/4/07	ND	ND	ND
MW6	BAMW6-S-21971	19	3/4/07	ND	ND	ND
MW6	BAMW6-S-21972	24	3/4/07	ND	ND	ND
MW6	BAMW6-S-21973	29	3/4/07	ND	ND	ND
MW6	BAMW6-S-21974	34	3/4/07	ND	ND	ND
MW6	BAMW6-S-21975	39	3/4/07	ND	ND	ND
MW6	BAMW6-S-21976	44	3/4/07	ND	ND	ND
MW6	BAMW6-S-21977	49	3/4/07	ND	ND	ND
MW6	BAMW6-S-21978	54	3/4/07	ND	ND	ND
MW6	BAMW6-S-21979	59	3/4/07	ND	ND	ND
MW6	BAMW6-S-21980	64	3/4/07	ND	ND	ND
MW6	BAMW6-S-21981	69	3/4/07	ND	ND	ND
MW6	BAMW6-S-21982	74	3/4/07	ND	ND	ND
MW6	BAMW6-S-21983	79	3/4/07	ND	ND	ND
MW6	BAMW6-S-21984	84	3/4/07	ND	ND	ND
MW6	BAMW6-S-21985	89	3/4/07	ND	ND	ND
MW6	BAMW6-S-17258	94	3/4/07	ND	ND	ND
MW6	BAMW6-S-17259	99	3/4/07	ND	ND	ND
MW6	BAMW6-S-17260	104	3/4/07	ND	ND	ND
MW7	BAMW7-S-21780	4	8/6/06	ND	ND	ND
MW7	BAMW7-S-21781	9	8/6/06	ND	ND	ND
MW7	BAMW7-S-21782	14	8/6/06	ND	ND	ND
MW7	BAMW7-S-21783	19	8/6/06	ND	ND	ND
MW7	BAMW7-S-21784	22.5	8/6/06	ND	ND	ND
MW7	BAMW7-S-21785	26	8/6/06	ND	ND	ND
MW7	BAMW7-S-21786	31	8/6/06	ND	ND	ND
MW7	BAMW7-S-21787	33.5	8/6/06	ND	ND	ND
MW7	BAMW7-S-21788	37	8/6/06	ND	ND	ND
MW7	BAMW7-S-21789	41	8/6/06	ND	ND	ND
MW7	BAMW7-S-21790	45	8/6/06	3.0 J	ND	ND
MW7	BAMW7-S-21791	50	8/6/06	ND	ND	ND
MW7	BAMW7-S-21792	54	8/6/06	4.9 J	1.6 J	ND
MW7	BAMW7-S-21793	59	8/7/06	ND	ND	ND
MW7	BAMW7-S-21794	64	8/7/06	ND	ND	ND

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW7	BAMW7-S-21795	66	8/7/06	ND	ND	ND
MW7	BAMW7-S-21796	74	8/7/06	ND	ND	ND
MW7	BAMW7-S-21797	79	8/7/06	ND	ND	ND
MW7	BAMW7-S-21798	84	8/7/06	ND	ND	ND
MW7	BAMW7-S-21800	89	8/7/06	ND	ND	ND
MW7	BAMW7-S-21801	94	8/7/06	ND	ND	ND
MW7	BAMW7-S-21802	100	8/7/06	ND	ND	ND
MW7	BAMW7-S-21803	105	8/7/06	ND	ND	ND
MW7	BAMW7-S-21804	109	8/7/06	ND	ND	ND
MW7	BAMW7-S-21809	114	8/7/06	ND	ND	ND
MW8	BAMW8-S-21756	4	8/5/06	ND	ND	ND
MW8	BAMW8-S-21757	9	8/5/06	ND	ND	ND
MW8	BAMW8-S-21758	13	8/5/06	ND	ND	ND
MW8	BAMW8-S-21759	17	8/5/06	ND	ND	ND
MW8	BAMW8-S-21760	23	8/5/06	ND	1.5 J	ND
MW8	BAMW8-S-21761	29	8/5/06	ND	ND	ND
MW8	BAMW8-S-21762	33	8/5/06	ND	ND	ND
MW8	BAMW8-S-21764	34	8/5/06	ND	ND	ND
MW8	BAMW8-S-21763	39	8/5/06	ND	ND	ND
MW8	BAMW8-S-21765	43.5	8/5/06	ND	ND	ND
MW8	BAMW8-S-21766	49	8/5/06	3.1 J	ND	ND
MW8	BAMW8-S-21767	54	8/5/06	ND	ND	ND
MW8	BAMW8-S-21768	59	8/5/06	ND	ND	ND
MW8	BAMW8-S-21769	63	8/5/06	ND	ND	ND
MW8	BAMW8-S-21770	67	8/5/06	ND	ND	ND
MW8	BAMW8-S-21772	71	8/5/06	ND	ND	ND
MW8	BAMW8-S-21773	75	8/5/06	ND	ND	ND
MW8	BAMW8-S-21774	80	8/6/06	ND	ND	ND
MW8	BAMW8-S-21775	84	8/6/06	ND	ND	ND
MW8	BAMW8-S-21776	89	8/6/06	ND	ND	ND
MW8	BAMW8-S-21777	96	8/6/06	ND	ND	ND
MW8	BAMW8-S-21778	101	8/6/06	ND	ND	ND
MW8	BAMW8-S-21779	108	8/6/06	ND	ND	ND
MW9	BAMW9-S-21716	5	8/2/06	ND	ND	ND
MW9	BAMW9-S-21717	10	8/2/06	ND	ND	ND
MW9	BAMW9-S-21718	15	8/3/06	ND	ND	ND
MW9	BAMW9-S-21719	19	8/3/06	ND	ND	ND
MW9	BAMW9-S-21720	25	8/3/06	ND	ND	ND
MW9	BAMW9-S-21721	30	8/3/06	ND	ND	ND
MW9	BAMW9-S-21722	33	8/3/06	ND	ND	ND
MW9	BAMW9-S-21723	35	8/4/06	ND	ND	ND
MW9	BAMW9-S-21724	38	8/4/06	6.8 J	ND	ND
MW9	BAMW9-S-21725	41.5	8/4/06	ND	ND	ND
MW9	BAMW9-S-21727	44	8/4/06	ND	ND	ND
MW9	BAMW9-S-21726	48	8/4/06	ND	ND	ND
MW9	BAMW9-S-21729	49	8/4/06	ND	ND	ND
MW9	BAMW9-S-21730	52.5	8/4/06	ND	ND	ND
MW9	BAMW9-S-21731	58	8/4/06	ND	ND	ND
MW9	BAMW9-S-21733	63	8/4/06	ND	ND	ND
MW9	BAMW9-S-21734	66	8/4/06	ND	ND	ND
MW9	BAMW9-S-21735	70	8/4/06	ND	ND	ND

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW9	BAMW9-S-21737	78.8	8/4/06	ND	ND	ND
MW9	BAMW9-S-21738	80.5	8/4/06	ND	ND	ND
MW9	BAMW9-S-21739	89.5	8/5/06	ND	ND	ND
MW9	BAMW9-S-21744	94.5	8/5/06	ND	ND	ND
MW10	BAMW10-S-21816	4	8/17/06	ND	ND	ND
MW10	BAMW10-S-21817	8	8/17/06	ND	ND	ND
MW10	BAMW10-S-21818	13	8/17/06	ND	ND	ND
MW10	BAMW10-S-21819	18	8/17/06	ND	ND	ND
MW10	BAMW10-S-21820	23	8/17/06	ND	ND	ND
MW10	BAMW10-S-21821	27	8/17/06	ND	ND	ND
MW10	BAMW10-S-21822	31	8/17/06	2.2 J	1.0 J	ND
MW10	BAMW10-S-21825	35.5	8/17/06	ND	ND	ND
MW10	BAMW10-S-21824	39	8/18/06	ND	ND	ND
MW10	BAMW10-S-21826	43	8/17/06	ND	ND	ND
MW10	BAMW10-S-21827	47	8/17/06	ND	ND	ND
MW10	BAMW10-S-21828	52	8/17/06	ND	ND	ND
MW10	BAMW10-S-21829	58	8/18/06	ND	ND	ND
MW10	BAMW10-S-21830	63	8/18/06	ND	ND	ND
MW10	BAMW10-S-21831	67.5	8/18/06	ND	ND	ND
MW10	BAMW10-S-21832	71	8/18/06	ND	ND	ND
MW10	BAMW10-S-21833	75	8/18/06	ND	ND	ND
MW10	BAMW10-S-21834	79	8/18/06	ND	ND	ND
MW10	BAMW10-S-21835	83	8/18/06	ND	ND	ND
MW10	BAMW10-S-21836	87	8/18/06	ND	ND	ND
MW10	BAMW10-S-21837	92	8/18/06	ND	ND	ND
MW10	BAMW10-S-21838	97	8/18/06	ND	ND	ND
MW10	BAMW10-S-21839	101	8/18/06	ND	ND	ND
MW11	BAMW11-S-21856	5	9/6/06	ND	ND	ND
MW11	BAMW11-S-21857	11	9/6/06	ND	ND	ND
MW11	BAMW11-S-21858	15	9/6/06	ND	ND	ND
MW11	BAMW11-S-21859	20	9/6/06	ND	ND	ND
MW11	BAMW11-S-21860	25	9/6/06	ND	ND	ND
MW11	BAMW11-S-21861	30	9/6/06	ND	ND	ND
MW11	BAMW11-S-21862	35	9/6/06	ND	ND	ND
MW11	BAMW11-S-21863	40	9/6/06	ND	ND	ND
MW11	BAMW11-S-21864	45	9/6/06	ND	ND	ND
MW11	BAMW11-S-21865	50	9/6/06	ND	ND	ND
MW11	BAMW11-S-21867	55	9/6/06	ND	ND	ND
MW11	BAMW11-S-21868	60	9/6/06	ND	ND	ND
MW11	BAMW11-S-21869	65	9/6/06	ND	ND	ND
MW11	BAMW11-S-21870	70	9/6/06	ND	ND	ND
MW11	BAMW11-S-21871	75	9/6/06	ND	ND	ND
MW11	BAMW11-S-21872	80	9/6/06	ND	ND	ND
MW11	BAMW11-S-21873	85	9/6/06	ND	ND	ND
MW11	BAMW11-S-21874	90	9/7/06	ND	ND	ND
MW11	BAMW11-S-21875	100	9/7/06	ND	ND	ND
MW11	BAMW11-S-21876	105	9/7/06	ND	ND	ND
MW12	BAMW12-S-21877	4	9/8/06	ND	ND	ND
MW12	BAMW12-S-21878	8	9/8/06	ND	ND	ND
MW12	BAMW12-S-21879	13	9/8/06	ND	ND	ND

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW12	BAMW12-S-21880	18	9/8/06	ND	ND	ND
MW12	BAMW12-S-21881	23	9/8/06	ND	ND	ND
MW12	BAMW12-S-21882	27	9/8/06	ND	ND	ND
MW12	BAMW12-S-21883	30	9/8/06	ND	ND	ND
MW12	BAMW12-S-21884	35	9/8/06	ND	ND	ND
MW12	BAMW12-S-21885	40	9/8/06	ND	ND	ND
MW12	BAMW12-S-21886	45	9/8/06	ND	ND	ND
MW12	BAMW12-S-21887	50	9/8/06	ND	ND	ND
MW12	BAMW12-S-21888	55	9/8/06	ND	ND	ND
MW12	BAMW12-S-21889	60	9/8/06	ND	ND	ND
MW12	BAMW12-S-21890	65	9/8/06	ND	ND	ND
MW12	BAMW12-S-21891	70	9/8/06	ND	ND	ND
MW12	BAMW12-S-21892	75	9/8/06	ND	ND	ND
MW12	BAMW12-S-21893	79	9/8/06	ND	ND	ND
MW12	BAMW12-S-21894	85	9/8/06	ND	ND	ND
MW12	BAMW12-S-21895	90	9/9/06	ND	ND	ND
MW12	BAMW12-S-21896	94	9/9/06	ND	ND	ND
MW12	BAMW12-S-21897	99	9/9/06	ND	ND	ND
MW12	BAMW12-S-21899	104	9/9/06	2.2 J	ND	ND
MW12	BAMW12-S-21900	109	9/9/06	ND	ND	ND
MW12	BAMW12-S-21901	114	9/9/06	ND	ND	ND
MW13	BAMW13-S-21851	4	2/27/07	ND	ND	ND
MW13	BAMW13-S-21852	7	2/27/07	ND	ND	ND
MW13	BAMW13-S-21853	12	2/27/07	ND	ND	ND
MW13	BAMW13-S-21854	17	2/27/07	ND	ND	ND
MW13	BAMW13-S-21855	22	2/27/07	ND	ND	ND
MW13	BAMW13-S-21745	27	2/27/07	ND	ND	ND
MW13	BAMW13-S-21694	32	2/27/07	ND	ND	ND
MW13	BAMW13-S-21695	38	2/27/07	ND	ND	ND
MW13	BAMW13-S-21921	41.5	2/27/07	ND	ND	ND
MW13	BAMW13-S-21922	45	2/27/07	ND	ND	ND
MW13	BAMW13-S-21923	50	2/27/07	ND	ND	ND
MW13	BAMW13-S-21924	55	2/27/07	ND	ND	ND
MW13	BAMW13-S-21925	60	2/27/07	ND	ND	ND
MW13	BAMW13-S-21914	65	2/27/07	ND	ND	ND
MW13	BAMW13-S-21915	70	2/27/07	ND	ND	ND
MW13	BAMW13-S-21926	75	2/27/07	ND	ND	ND
MW13	BAMW13-S-21927	78	2/27/07	ND	ND	ND
MW13	BAMW13-S-21928	83	2/27/07	ND	ND	ND
MW13	BAMW13-S-21929	88	2/27/07	ND	ND	ND
MW13	BAMW13-S-21930	94	2/28/07	ND	ND	ND
MW13	BAMW13-S-21931	99	2/28/07	ND	ND	ND
MW13	BAMW13-S-21932	104	2/28/07	ND	ND	ND
MW13	BAMW13-S-21933	107	2/28/07	ND	ND	ND
MW13	BAMW13-S-21934	113	2/28/07	ND	ND	ND
MW13	BAMW13-S-21936	119	2/28/07	ND	ND	ND
MW13	BAMW13-S-21937	124	2/28/07	ND	ND	ND
MW13	BAMW13-S-21938	129	2/28/07	ND	ND	ND
MW14	BAMW14-S-21939	3.5	3/2/07	ND	ND	ND
MW14	BAMW14-S-21940	8	3/2/07	ND	ND	ND
MW14	BAMW14-S-21941	13	3/2/07	ND	ND	ND

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW14	BAMW14-S-21942	18	3/2/07	ND	ND	ND
MW14	BAMW14-S-21943	22	3/2/07	ND	ND	ND
MW14	BAMW14-S-21944	27	3/2/07	ND	ND	ND
MW14	BAMW14-S-21945	32	3/2/07	ND	ND	ND
MW14	BAMW14-S-21949	37	3/2/07	ND	ND	ND
MW14	BAMW14-S-21950	42	3/2/07	ND	ND	ND
MW14	BAMW14-S-21951	49	3/2/07	ND	ND	ND
MW14	BAMW14-S-21952	52	3/2/07	ND	ND	ND
MW14	BAMW14-S-21953	57	3/2/07	ND	ND	ND
MW14	BAMW14-S-21954	62	3/2/07	ND	ND	ND
MW14	BAMW14-S-21955	67	3/2/07	ND	ND	ND
MW14	BAMW14-S-21956	72	3/2/07	ND	ND	ND
MW14	BAMW14-S-21957	77	3/2/07	ND	ND	ND
MW14	BAMW14-S-21958	82	3/2/07	ND	ND	ND
MW14	BAMW14-S-21959	87	3/2/07	ND	ND	ND
MW14	BAMW14-S-21960	92	3/2/07	ND	ND	ND
MW14	BAMW14-S-21961	97	3/2/07	ND	ND	ND
MW14	BAMW14-S-21963	102	3/2/07	ND	ND	ND
MW14	BAMW14-S-21964	107	3/2/07	ND	ND	ND
MW14	BAMW14-S-21965	112	3/2/07	ND	ND	ND
MW14	BAMW14-S-21966	117	3/2/07	ND	ND	ND
MW14	BAMW14-S-21967	122	3/2/07	ND	ND	ND
MW15	BAMW15-S-17268	4	3/6/07	ND	ND	ND
MW15	BAMW15-S-17269	9	3/6/07	ND	ND	ND
MW15	BAMW15-S-17270	14	3/6/07	ND	ND	ND
MW15	BAMW15-S-17271	19	3/6/07	ND	ND	ND
MW15	BAMW15-S-17272	24	3/6/07	ND	ND	ND
MW15	BAMW15-S-17273	29	3/6/07	ND	ND	ND
MW15	BAMW15-S-17274	34	3/6/07	ND	ND	ND
MW15	BAMW15-S-17275	39	3/6/07	ND	ND	ND
MW15	BAMW15-S-17276	44	3/6/07	ND	ND	ND
MW15	BAMW15-S-17277	49	3/6/07	ND	ND	ND
MW15	BAMW15-S-17278	54	3/6/07	ND	ND	ND
MW15	BAMW15-S-17279	59	3/6/07	ND	ND	ND
MW15	BAMW15-S-17280	64	3/6/07	ND	ND	ND
MW15	BAMW15-S-17283	69	3/6/07	ND	ND	ND
MW15	BAMW15-S-17285	74	3/6/07	ND	ND	ND
MW15	BAMW15-S-17286	79	3/6/07	ND	ND	ND
MW15	BAMW15-S-17287	84	3/6/07	ND	ND	ND
MW15	BAMW15-S-17288	89	3/6/07	ND	ND	ND
MW15	BAMW15-S-17289	94	3/6/07	ND	ND	ND
MW15	BAMW15-S-17291	99	3/6/07	ND	ND	ND
MW15	BAMW15-S-17292	104	3/6/07	ND	ND	ND
MW16	BAMW16D-S-17302	4	3/8/07	ND	ND	ND
MW16	BAMW16D-S-17303	9	3/8/07	ND	ND	ND
MW16	BAMW16D-S-17304	14	3/8/07	ND	ND	ND
MW16	BAMW16D-S-17305	19	3/8/07	ND	ND	ND
MW16	BAMW16D-S-17306	24	3/8/07	ND	ND	ND
MW16	BAMW16D-S-17307	29	3/8/07	ND	ND	ND
MW16	BAMW16D-S-22491	34	3/8/07	ND	ND	ND
MW16	BAMW16D-S-22492	39	3/8/07	ND	ND	ND

TABLE S1.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Concentration (µg/kg)		
				Carbon Tetrachloride	Chloroform	Methylene Chloride
MW16	BAMW16D-S-22493	44	3/8/07	ND	ND	ND
MW16	BAMW16D-S-22494	50	3/8/07	ND	ND	ND
MW16	BAMW16D-S-22495	60	3/8/07	ND	ND	ND
MW16	BAMW16D-S-22496	65	3/8/07	ND	ND	ND
MW16	BAMW16D-S-22497	70	3/8/07	ND	ND	ND
MW17	BAMW17-S-22514	5	3/9/07	ND	ND	ND
MW17	BAMW17-S-22515	10	3/9/07	ND	ND	ND
MW17	BAMW17-S-22516	15	3/9/07	ND	ND	ND
MW17	BAMW17-S-22517	20	3/9/07	ND	ND	ND
MW17	BAMW17-S-22518	25	3/9/07	ND	ND	ND
MW17	BAMW17-S-22519	30	3/9/07	ND	ND	ND
MW17	BAMW17-S-22520	35	3/9/07	ND	ND	ND
MW17	BAMW17-S-22521	40	3/9/07	ND	ND	ND
MW17	BAMW17-S-22522	45	3/9/07	ND	ND	ND
MW17	BAMW17-S-22523	50	3/9/07	ND	ND	ND
MW17	BAMW17-S-22524	55	3/10/07	ND	ND	ND
MW17	BAMW17-S-22525	60	3/10/07	ND	ND	ND
MW17	BAMW17-S-22526	65	3/10/07	ND	ND	ND
MW17	BAMW17-S-22527	70	3/10/07	ND	ND	ND
MW17	BAMW17-S-22532	75	3/10/07	ND	ND	ND
MW17	BAMW17-S-22533	80	3/10/07	ND	ND	ND
MW17	BAMW17-S-22534	85	3/10/07	ND	ND	ND
MW17	BAMW17-S-22535	90	3/10/07	ND	ND	ND
MW17	BAMW17-S-22537	95	3/10/07	ND	ND	ND
MW17	BAMW17-S-22538	100	3/10/07	ND	ND	ND
MW17	BAMW17-S-22539	105	3/10/07	ND	ND	ND
MW17	BAMW17-S-22540	110	3/10/07	ND	ND	ND
MW17	BAMW17-S-22541	115	3/10/07	ND	ND	ND
MW17	BAMW17-S-22542	120	3/10/07	ND	ND	ND

^a ND, contaminant not detected at the instrument detection limit of 1.0 µg/kg.

^b Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 10 µg/kg.

Supplement 2:

Field Measurements and Nitrate-Nitrite Nitrogen Data for Water Samples

TABLE S2.1 Field measurements made on groundwater samples collected during the 2006-2007 investigation at Barnes.

Location	Sample	Depth (ft BGL)	Sampling Date	Temperature (°C)	pH	Conductivity (µS/cm)
<i>Existing KDHE monitoring wells</i>						
MW1S	Not sampled (well dry)	13.3-23.3	7/19/06	—	—	—
MW1S	Not sampled (well dry)	13.3-23.3	4/4/07	—	—	—
MW1D	BAMW1D-W-21688	139.8-159.4	7/19/06	22.8	7.15	945
MW1D	BAMW1D-W-22565	139.8-159.4	4/4/07	15.7	6.30	855
MW2D	BAMW2D-W-21687	133.3-152.9	7/19/06	24.7	7.72	946
MW2D	BAMW2D-W-22564	133.3-152.9	4/4/07	15.1	6.32	887
MW3D	BAMW3D-W-21686	133.0-152.7	7/19/06	23.0	7.06	976
MW3D	BAMW3D-W-22567	133.0-152.7	4/4/07	15.6	6.37	989
MW4D	BAMW4D-W-21690	98.4-118.2	7/20/06	23.5	6.26	968
MW4D	BAMW4D-W-22583	98.4-118.2	4/6/07	11.3	6.21	1018
<i>Monitoring wells installed during the 2006-2007 investigation</i>						
MW5	BAMW5-W-22589	110-120	4/6/07	13.9	6.17	1705
MW6S	Not sampled (well dry)	90.5-100.5	4/4/07	—	—	—
MW6D	BAMW6D-W-22573	105-115	4/5/07	6.2	6.11	936
MW7	BAMW7-W-22588	116-126	4/6/07	14.1	6.30	1051
MW8	BAMW8-W-22584	110-120	4/6/07	12.1	6.23	974
MW9	BAMW9-W-22582	100-110	4/5/07	12.9	6.20	976
MW10S	BAMW10S-W-22586	93-103	4/6/07	13.2	6.36	1004
MW10D	BAMW10D-W-22585	115-125	4/6/07	12.1	6.21	992
MW11S	BAMW11S-W-22570	40-50	4/4/07	12.8	6.14	1027
MW11M	BAMW11M-W-22572	90-100	4/5/07	7.5	7.60	1097
MW11D	BAMW11D-W-22571	125-135	4/4/07	13.8	6.18	990
MW12S	Not sampled (well dry)	43-53	4/5/07	—	—	—
MW12M	BAMW12M-W-22580	90-100	4/5/07	12.6	6.42	867
MW12D	BAMW12D-W-22576	115-125	4/5/07	14.0	6.36	930
MW13S	BAMW13S-W-22575	112-122	4/5/07	9.8	6.42	946
MW13D	BAMW13D-W-22574	127-137	4/5/07	14.9	6.25	397
MW14S	BAMW14S-W-22569	108-118	4/4/07	13.4	6.50	704
MW14D	BAMW14D-W-22568	123-133	4/4/07	14.7	6.34	932
MW15S	BAMW15S-W-22560	88-98	4/4/07	13.1	8.03	854
MW15D	BAMW15D-W-22561	105-115	4/4/07	14.8	6.15	2980
MW16S	BAMW16S-W-22563	76-86	4/4/07	12.8	6.35	1708
MW16D	BAMW16D-W-22562	90-100	4/4/07	14.1	6.17	2910
MW17	BAMW17D-W-22566	120-130	4/4/07	16.0	6.44	861

TABLE S2.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Temperature (°C)	pH	Conductivity (μS/cm)
<i>Private well</i>						
Sedivy	BASED2-W-21913	138	9/13/06	22.5	6.57	739

TABLE S2.2 Analytical results for nitrate-nitrite nitrogen in groundwater samples collected at Barnes in 2006. Analyses were conducted by Severn-Trent Laboratories.

Location	Sample	Depth (ft BGL)	Sampling Date	Nitrate-Nitrite Nitrogen (mg/L)
<i>Existing KDHE monitoring wells</i>				
MW1D	BAMW1D-W-21688	139.8-159.4	7/19/06	8.39
MW2D	BAMW2D-W-21687	133.3-152.9	7/19/06	5.47
MW3D	BAMW3D-W-21686	133.0-152.7	7/19/06	7.84
MW4D	BAMW4D-W-21690	98.4-118.2	7/20/06	6.88
<i>Private well</i>				
Oentrich	BAOENT-W-21693	150	7/20/06	3.26

Supplement 3:
Groundwater Level Data

TABLE S3.1 Hand-measured water levels for Barnes, Kansas, July 2006 to May 2007.

Well		Water Level Depth (feet below top of casing) on Date Indicated																			
		7/22/06		7/27/06		7/27/2006		7/31/06		8/8/06		8/13/06		9/13/06		2/22/07		4/30/07		5/10/07	
		Time	Depth	Time	Depth	Time	Depth	Time	Depth	Time	Depth	Time	Depth	Time	Depth	Time	Depth	Time	Depth	Time	Depth
MW1S				9:17	Dry																
MW1D	1351.35			9:21	135.35	15:13	133.40	9:09	135.42	10:23	133.57	14:18	133.52	13:41	133.34	13:00	133.22			14:03	130.63
MW2D	1348.85	19:37	130.93	9:31	133.03	15:32	131.04	9:24	133.08	10:41	131.31	14:32	131.26	14:09	131.09	13:33	130.86			14:45	128.32
MW3D	1345.99	19:25	127.53	9:08	129.15	14:55	127.76	8:57	129.22	10:00	127.97	14:00	127.87	13:07	127.7	11:58	128.77			13:31	125.03
MW4D	1326.24	19:12	108.01	8:55	108.86	14:25	108.19	8:43	108.80	9:26	108.54	13:14	108.34	12:33	108.17	10:03	108.56			16:30	105.33
MW5	1327.20									11:31	109.51	13:38	109.54	12:49	109.38	9:41	109.57				
MW6S	1323.13																				
MW6D	1323.15																				
MW7	1329.91									11:20	112.11	13:29	112.13	11:48	112.00	9:23	112.20			16:06	109.24
MW8	1330.06									11:45	112.01	13:08	112.04	12:43	111.88	10:19	112.27				
MW9	1321.86									11:36	104.01	13:47	103.97	12:09	103.81	10:28	104.16			15:08	101.04
Oentrich ^a	1336.93									9:42	118.99	14:53	119.01	14:43	118.6	11:01	119.06			16:59	115.70
MW10S	1331.33													15:00	86.02	9:52	84.02				
MW10D	1331.33													15:03	113.35	9:54	113.69				
MW11S	1336.58															11:41	29.18				
MW11M	1336.51															11:44	90.49				
MW11D	1336.53															11:46	119.10				
MW12S	1327.46													15:12	52.25	11:24	52.09				
MW12M	1327.46													15:16	83.85	11:27	82.39				
MW12D	1327.52													15:19	109.85	11:30	110.64				
MW13S	1342.36																				
MW13D	1342.37																				
MW14S	1332.69																				
MW14D	1332.74																	16:45	112.95	14:55	112.33
MW15S	1309.34																				
MW15D	1309.29																	18:30	86.31	15:34	84.40
MW16S	1299.47																				
MW16D	1299.52																	19:31	78.56	15:54	77.63
MW17	1351.77																				

^a Oentrich well water level is measured from the concrete at the top of the well vault. The values shown have been corrected by 5.5 ft to give the measured depth from the top of the casing.

TABLE S3.2 Automatically recorded water levels at Barnes, Kansas, January 1, 2007 to May 10, 2007

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/1/2007	0:00	133.059	130.943	127.525	107.987	111.796	103.588	118.766			
1/1/2007	0:30	133.055	130.941	127.52	107.98	111.792	103.584	118.75			
1/1/2007	1:00	133.047	130.93	127.508	107.97	111.784	103.574	118.737			
1/1/2007	1:30	133.032	130.917	127.492	107.953	111.767	103.56	118.722			
1/1/2007	2:00	133.02	130.905	127.485	107.948	111.756	103.548	118.709			
1/1/2007	2:30	133.013	130.898	127.481	107.941	111.75	103.541	118.696			
1/1/2007	3:00	133.007	130.893	127.476	107.937	111.746	103.537	118.683			
1/1/2007	3:30	133.013	130.9	127.483	107.944	111.754	103.544	118.67			
1/1/2007	4:00	133.015	130.902	127.483	107.948	111.754	103.544	118.657			
1/1/2007	4:30	133.012	130.898	127.481	107.941	111.75	103.541	118.645			
1/1/2007	5:00	132.999	130.885	127.462	107.924	111.735	103.527	118.634			
1/1/2007	5:30	132.993	130.879	127.46	107.92	111.729	103.52	118.621			
1/1/2007	6:00	132.985	130.87	127.453	107.911	111.722	103.515	118.608			
1/1/2007	6:30	132.993	130.879	127.462	107.925	111.731	103.525	118.596			
1/1/2007	7:00	132.991	130.877	127.462	107.924	111.729	103.522	118.587			
1/1/2007	7:30	132.997	130.883	127.462	107.924	111.733	103.527	118.574			
1/1/2007	8:00	132.997	130.881	127.462	107.922	111.733	103.527	118.563			
1/1/2007	8:30	132.997	130.883	127.464	107.925	111.735	103.525	118.551			
1/1/2007	9:00	133.003	130.887	127.471	107.93	111.739	103.532	118.538			
1/1/2007	9:30	133.011	130.896	127.481	107.941	111.75	103.541	118.533			
1/1/2007	10:00	133.02	130.907	128.39	108.217	111.758	103.548	118.514			
1/1/2007	10:30	134.847	132.643	128.802	108.52	112.146	104.069	119.034			
1/1/2007	11:00	134.97	132.764	128.908	108.615	112.245	104.173	119.136			
1/1/2007	11:30	135.035	132.831	128.968	108.67	112.306	104.235	119.179			
1/1/2007	12:00	135.066	132.861	128.991	108.691	112.333	104.263	119.203			
1/1/2007	12:30	135.08	132.876	129.012	108.709	112.346	104.275	119.216			
1/1/2007	13:00	135.088	132.887	129.014	108.708	112.352	104.284	119.229			
1/1/2007	13:30	135.093	132.887	129.019	108.713	112.36	104.289	119.237			
1/1/2007	14:00	135.096	132.893	129.021	108.715	112.363	104.293	119.246			
1/1/2007	14:30	135.099	132.895	128.285	108.604	112.369	104.296	119.25			
1/1/2007	15:00	133.324	131.208	127.747	108.177	112.003	103.808	118.758			
1/1/2007	15:30	133.189	131.075	127.638	108.079	111.895	103.692	118.638			
1/1/2007	16:00	133.127	131.012	127.578	108.025	111.843	103.636	118.578			
1/1/2007	16:30	133.09	130.975	127.545	107.998	111.813	103.605	118.544			
1/1/2007	17:00	133.067	130.954	127.527	107.979	111.794	103.586	118.519			
1/1/2007	17:30	133.053	130.939	127.515	107.97	111.781	103.574	118.506			
1/1/2007	18:00	133.047	130.932	127.508	107.965	111.777	103.57	118.489			
1/1/2007	18:30	133.032	130.92	127.492	107.951	111.763	103.555	118.478			
1/1/2007	19:00	133.015	130.905	127.476	107.934	111.75	103.537	118.467			
1/1/2007	19:30	133.003	130.889	127.467	107.925	111.735	103.525	118.456			
1/1/2007	20:00	132.997	130.885	127.462	107.92	111.733	103.52	118.454			
1/1/2007	20:30	132.988	130.877	127.455	107.911	111.722	103.513	118.446			
1/1/2007	21:00	132.988	130.877	127.451	107.911	111.725	103.515	118.437			
1/1/2007	21:30	132.984	130.872	127.448	107.906	111.72	103.51	118.431			
1/1/2007	22:00	132.972	130.859	127.434	107.894	111.706	103.499	118.424			
1/1/2007	22:30	132.968	130.855	127.429	107.889	111.701	103.492	118.416			
1/1/2007	23:00	132.958	130.844	127.42	107.88	111.691	103.482	118.41			
1/1/2007	23:30	132.954	130.84	127.418	107.879	111.689	103.478	118.403			
1/2/2007	0:00	132.941	130.829	127.404	107.863	111.674	103.466	118.397			
1/2/2007	0:30	132.935	130.823	127.399	107.86	111.67	103.463	118.392			
1/2/2007	1:00	132.925	130.812	127.39	107.851	111.661	103.452	118.388			
1/2/2007	1:30	132.908	130.795	127.374	107.834	111.643	103.435	118.384			
1/2/2007	2:00	132.906	130.793	127.371	107.83	111.642	103.433	118.38			
1/2/2007	2:30	132.902	130.788	127.367	107.825	111.642	103.428	118.377			
1/2/2007	3:00	132.9	130.788	127.37	107.829	111.64	103.428	118.373			
1/2/2007	3:30	132.908	130.797	127.376	107.836	111.647	103.438	118.371			
1/2/2007	4:00	132.904	130.793	127.37	107.83	111.642	103.433	118.369			
1/2/2007	4:30	132.904	130.79	127.369	107.83	111.642	103.43	118.365			
1/2/2007	5:00	132.9	130.786	127.365	107.825	111.638	103.428	118.362			
1/2/2007	5:30	132.886	130.773	127.346	107.81	111.624	103.416	118.358			
1/2/2007	6:00	132.873	130.762	127.337	107.798	111.611	103.4	118.356			
1/2/2007	6:30	132.867	130.754	127.335	107.794	111.605	103.395	118.354			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/2/2007	7:00	132.861	130.747	127.326	107.786	111.598	103.388	118.354			
1/2/2007	7:30	132.861	130.75	127.326	107.787	111.6	103.388	118.352			
1/2/2007	8:00	134.404	132.228	128.332	108.187	111.802	103.697	118.672			
1/2/2007	8:30	134.702	132.521	128.544	108.363	112.005	103.916	118.886			
1/2/2007	9:00	134.793	132.613	128.623	108.434	112.085	104.001	118.968			
1/2/2007	9:30	134.84	132.661	128.669	108.475	112.129	104.043	119.019			
1/2/2007	10:00	134.869	132.689	128.692	108.497	112.156	104.072	119.053			
1/2/2007	10:30	134.89	132.71	128.713	108.518	112.177	104.095	119.075			
1/2/2007	11:00	133.179	131.064	127.596	108.027	111.861	103.666	118.67			
1/2/2007	11:30	133.02	130.909	127.471	107.915	111.731	103.525	118.555			
1/2/2007	12:00	132.96	130.846	127.418	107.867	111.68	103.475	118.506			
1/2/2007	12:30	132.927	130.814	127.383	107.836	111.655	103.447	118.486			
1/2/2007	13:00	132.892	130.782	127.351	107.805	111.622	103.414	118.476			
1/2/2007	13:30	132.873	130.762	127.335	107.791	111.605	103.395	118.471			
1/2/2007	14:00	132.866	130.758	127.328	107.786	111.606	103.393	118.467			
1/2/2007	14:30	132.854	130.747	127.321	107.777	111.59	103.379	118.467			
1/2/2007	15:00	132.846	130.737	127.307	107.767	111.584	103.374	118.469			
1/2/2007	15:30	132.842	130.732	127.309	107.77	111.582	103.367	118.469			
1/2/2007	16:00	132.842	130.73	127.304	107.765	111.581	103.369	118.471			
1/2/2007	16:30	132.834	130.724	127.295	107.758	111.573	103.36	118.474			
1/2/2007	17:00	132.831	130.724	127.297	107.76	111.573	103.36	118.478			
1/2/2007	17:30	132.826	130.715	127.286	107.748	111.563	103.355	118.48			
1/2/2007	18:00	132.824	130.713	127.286	107.746	111.565	103.353	118.484			
1/2/2007	18:30	132.824	130.713	127.282	107.743	111.563	103.35	118.488			
1/2/2007	19:00	132.821	130.71	127.291	107.751	111.562	103.348	118.489			
1/2/2007	19:30	132.832	130.719	127.295	107.758	111.571	103.362	118.489			
1/2/2007	20:00	132.827	130.717	127.296	107.758	111.567	103.355	118.495			
1/2/2007	20:30	132.828	130.715	127.293	107.755	111.565	103.355	118.497			
1/2/2007	21:00	132.832	130.719	127.293	107.753	111.571	103.36	118.501			
1/2/2007	21:30	132.811	130.704	127.279	107.739	111.55	103.341	118.503			
1/2/2007	22:00	132.811	130.702	127.277	107.736	111.55	103.336	118.508			
1/2/2007	22:30	132.817	130.709	127.284	107.746	111.556	103.345	118.508			
1/2/2007	23:00	132.819	130.711	127.288	107.749	111.56	103.35	118.512			
1/2/2007	23:30	132.832	130.722	127.296	107.758	111.573	103.36	118.512			
1/3/2007	0:00	132.824	130.713	127.289	107.751	111.562	103.35	118.516			
1/3/2007	0:30	132.811	130.702	127.275	107.736	111.55	103.338	118.518			
1/3/2007	1:00	132.809	130.7	127.27	107.732	111.548	103.338	118.518			
1/3/2007	1:30	132.801	130.691	127.265	107.725	111.541	103.331	118.521			
1/3/2007	2:00	132.791	130.681	127.259	107.72	111.529	103.319	118.523			
1/3/2007	2:30	132.791	130.683	127.261	107.722	111.531	103.322	118.523			
1/3/2007	3:00	132.803	130.696	127.272	107.734	111.546	103.336	118.527			
1/3/2007	3:30	132.801	130.691	127.268	107.729	111.542	103.331	118.529			
1/3/2007	4:00	132.794	130.685	127.263	107.725	111.537	103.327	118.533			
1/3/2007	4:30	132.791	130.683	127.259	107.718	111.533	103.322	118.533			
1/3/2007	5:00	132.788	130.679	127.254	107.717	111.529	103.315	118.536			
1/3/2007	5:30	132.78	130.672	127.247	107.708	111.52	103.31	118.538			
1/3/2007	6:00	132.772	130.663	127.238	107.699	111.512	103.303	118.54			
1/3/2007	6:30	132.763	130.655	127.226	107.689	111.504	103.294	118.542			
1/3/2007	7:00	132.751	130.642	127.217	107.679	111.493	103.282	118.542			
1/3/2007	7:30	132.743	130.633	127.212	107.674	111.483	103.272	118.54			
1/3/2007	8:00	134.214	132.024	128.32	108.08	111.655	103.548	118.805			
1/3/2007	8:30	134.637	132.441	128.586	108.299	111.929	103.848	119.06			
1/3/2007	9:00	134.758	132.557	128.688	108.391	112.024	103.949	119.143			
1/3/2007	9:30	134.814	132.618	128.739	108.434	112.078	104.003	119.184			
1/3/2007	10:00	134.855	132.659	128.781	108.473	112.116	104.046	119.211			
1/3/2007	10:30	134.877	132.68	128.804	108.494	112.139	104.065	119.228			
1/3/2007	11:00	134.896	132.697	128.822	108.516	112.154	104.084	119.241			
1/3/2007	11:30	134.919	132.721	128.843	108.535	112.181	104.11	119.256			
1/3/2007	12:00	134.929	132.732	128.852	108.544	112.194	104.119	119.265			
1/3/2007	12:30	134.927	132.73	128.852	108.544	112.19	104.119	119.271			
1/3/2007	13:00	134.925	132.725	128.848	108.539	112.186	104.114	119.276			
1/3/2007	13:30	134.913	132.714	128.836	108.527	112.175	104.102	119.278			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/3/2007	14:00	134.913	132.714	128.834	108.527	112.179	104.105	119.365			
1/3/2007	14:30	134.904	132.71	128.832	108.523	112.177	104.098	119.374			
1/3/2007	15:00	134.9	132.704	128.827	108.525	112.173	104.098	119.382			
1/3/2007	15:30	133.187	131.081	127.596	108.02	111.859	103.662	118.974			
1/3/2007	16:00	133.024	130.915	127.471	107.911	111.735	103.525	118.858			
1/3/2007	16:30	132.968	130.857	127.42	107.865	111.689	103.478	118.809			
1/3/2007	17:00	132.931	130.823	127.39	107.865	111.661	103.447	118.782			
1/3/2007	17:30	132.914	130.808	127.374	107.889	111.649	103.435	118.771			
1/3/2007	18:00	132.915	130.806	127.371	107.889	111.651	103.435	118.764			
1/3/2007	18:30	132.908	130.801	127.371	107.863	111.649	103.435	118.762			
1/3/2007	19:00	132.902	130.795	127.363	107.843	111.645	103.43	118.758			
1/3/2007	19:30	132.89	130.782	127.349	107.822	111.628	103.409	118.754			
1/3/2007	20:00	132.887	130.78	127.346	107.815	111.628	103.411	118.75			
1/3/2007	20:30	132.877	130.769	127.332	107.799	111.615	103.402	118.749			
1/3/2007	21:00	132.858	130.752	127.316	107.782	111.6	103.381	118.743			
1/3/2007	21:30	132.85	130.745	127.307	107.774	111.592	103.378	118.739			
1/3/2007	22:00	132.842	130.737	127.307	107.767	111.581	103.364	118.739			
1/3/2007	22:30	132.832	130.726	127.291	107.753	111.573	103.357	118.737			
1/3/2007	23:00	132.815	130.711	127.277	107.741	111.556	103.341	118.734			
1/3/2007	23:30	132.805	130.702	127.274	107.739	111.552	103.334	118.734			
1/4/2007	0:00	132.811	130.704	127.277	107.741	111.554	103.338	118.734			
1/4/2007	0:30	132.817	130.713	127.279	107.746	111.562	103.345	118.735			
1/4/2007	1:00	132.811	130.707	127.274	107.744	111.554	103.343	118.737			
1/4/2007	1:30	132.786	130.685	127.251	107.72	111.531	103.317	118.739			
1/4/2007	2:00	132.765	130.661	127.226	107.696	111.508	103.294	118.741			
1/4/2007	2:30	132.78	130.676	127.251	107.72	111.525	103.31	118.739			
1/4/2007	3:00	132.788	130.685	127.252	107.762	111.537	103.319	118.741			
1/4/2007	3:30	132.796	130.691	127.263	107.787	111.544	103.329	118.745			
1/4/2007	4:00	132.811	130.707	127.279	107.811	111.56	103.343	118.745			
1/4/2007	4:30	132.815	130.709	127.284	107.825	111.563	103.35	118.745			
1/4/2007	5:00	132.824	130.715	127.282	107.83	111.571	103.355	118.747			
1/4/2007	5:30	132.805	130.696	127.26	107.817	111.548	103.336	118.749			
1/4/2007	6:00	132.791	130.685	127.254	107.806	111.537	103.322	118.745			
1/4/2007	6:30	132.788	130.681	127.259	107.803	111.535	103.319	118.745			
1/4/2007	7:00	132.784	130.674	127.247	107.796	111.525	103.312	118.745			
1/4/2007	7:30	132.782	130.674	127.247	107.796	111.527	103.315	118.745			
1/4/2007	8:00	134.422	132.25	128.306	108.173	111.786	103.685	119.092			
1/4/2007	8:30	134.644	132.469	128.48	108.301	111.96	103.869	119.256			
1/4/2007	9:00	133.667	131.524	127.672	108.12	111.996	103.881	119.26			
1/4/2007	9:30	132.981	130.872	127.418	107.911	111.697	103.487	118.901			
1/4/2007	10:00	132.91	130.801	127.363	107.851	111.642	103.43	118.831			
1/4/2007	10:30	132.875	130.767	127.342	107.83	111.613	103.4	118.803			
1/4/2007	11:00	132.877	130.771	127.33	107.827	111.617	103.402	118.788			
1/4/2007	11:30	132.852	130.745	127.314	107.794	111.596	103.381	118.782			
1/4/2007	12:00	132.842	130.734	127.305	107.779	111.584	103.371	118.779			
1/4/2007	12:30	132.834	130.728	127.297	107.768	111.577	103.367	118.773			
1/4/2007	13:00	132.809	130.7	127.272	107.743	111.548	103.336	118.773			
1/4/2007	13:30	132.782	130.674	127.242	107.715	111.523	103.312	118.907			
1/4/2007	14:00	132.77	130.663	127.228	107.694	111.512	103.298	118.899			
1/4/2007	14:30	132.755	130.651	127.214	107.679	111.501	103.286	118.897			
1/4/2007	15:00	132.739	130.631	127.207	107.667	111.483	103.268	118.901			
1/4/2007	15:30	132.737	130.631	127.205	107.667	111.482	103.268	118.901			
1/4/2007	16:00	132.745	130.64	127.212	107.675	111.493	103.277	118.905			
1/4/2007	16:30	132.759	130.655	127.228	107.693	111.506	103.291	118.907			
1/4/2007	17:00	132.765	130.659	127.233	107.699	111.514	103.298	118.91			
1/4/2007	17:30	132.768	130.661	127.235	107.698	111.514	103.301	118.914			
1/4/2007	18:00	132.765	130.657	127.233	107.696	111.51	103.296	118.918			
1/4/2007	18:30	132.774	130.668	127.24	107.706	111.522	103.308	118.918			
1/4/2007	19:00	132.79	130.681	127.265	107.729	111.539	103.322	118.918			
1/4/2007	19:30	132.798	130.691	127.265	107.732	111.544	103.331	118.921			
1/4/2007	20:00	132.83	130.719	127.293	107.758	111.577	103.362	118.921			
1/4/2007	20:30	132.838	130.726	127.3	107.767	111.582	103.369	118.921			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/4/2007	21:00	132.828	130.717	127.293	107.755	111.571	103.36	118.92			
1/4/2007	21:30	132.825	130.717	127.295	107.758	111.571	103.36	118.918			
1/4/2007	22:00	132.838	130.728	127.302	107.765	111.582	103.369	118.914			
1/4/2007	22:30	132.842	130.73	127.309	107.774	111.586	103.374	118.912			
1/4/2007	23:00	132.84	130.73	127.305	107.768	111.584	103.371	118.908			
1/4/2007	23:30	132.84	130.73	127.305	107.767	111.586	103.371	118.903			
1/5/2007	0:00	132.83	130.719	127.295	107.758	111.571	103.36	118.903			
1/5/2007	0:30	132.832	130.722	127.298	107.76	111.573	103.36	118.897			
1/5/2007	1:00	132.838	130.726	127.309	107.772	111.581	103.371	118.893			
1/5/2007	1:30	132.836	130.726	127.3	107.763	111.581	103.367	118.888			
1/5/2007	2:00	132.834	130.724	127.3	107.762	111.577	103.364	118.884			
1/5/2007	2:30	132.826	130.717	127.291	107.755	111.569	103.357	118.88			
1/5/2007	3:00	132.811	130.702	127.279	107.743	111.554	103.346	118.878			
1/5/2007	3:30	132.819	130.711	127.296	107.756	111.565	103.355	118.871			
1/5/2007	4:00	132.825	130.715	127.291	107.756	111.571	103.36	118.869			
1/5/2007	4:30	132.815	130.702	127.272	107.737	111.56	103.348	118.865			
1/5/2007	5:00	132.813	130.702	127.284	107.748	111.562	103.346	118.859			
1/5/2007	5:30	132.817	130.707	127.279	107.743	111.56	103.35	118.858			
1/5/2007	6:00	132.809	130.7	127.275	107.739	111.554	103.341	118.854			
1/5/2007	6:30	132.809	130.698	127.279	107.743	111.558	103.343	118.85			
1/5/2007	7:00	132.821	130.709	127.291	107.758	111.565	103.355	118.846			
1/5/2007	7:30	132.828	130.715	127.3	107.763	111.571	103.36	118.843			
1/5/2007	8:00	134.544	132.368	128.411	108.242	111.872	103.777	119.201			
1/5/2007	8:30	134.739	132.562	128.573	108.38	112.024	103.935	119.325			
1/5/2007	9:00	134.828	132.648	128.649	108.451	112.101	104.015	119.374			
1/5/2007	9:30	134.884	132.704	128.7	108.499	112.16	104.072	119.399			
1/5/2007	10:00	134.917	132.738	128.734	108.537	112.192	104.105	119.412			
1/5/2007	10:30	134.943	132.764	128.762	108.563	112.217	104.133	119.423			
1/5/2007	11:00	134.975	132.794	128.792	108.594	112.251	104.166	119.43			
1/5/2007	11:30	134.989	132.811	128.82	108.622	112.27	104.185	119.436			
1/5/2007	12:00	133.456	131.337	127.806	108.225	112.085	103.897	119.216			
1/5/2007	12:30	133.173	131.059	127.608	108.051	111.88	103.673	119.04			
1/5/2007	13:00	133.072	130.958	127.518	107.966	111.794	103.586	118.968			
1/5/2007	13:30	133.012	130.896	127.462	107.913	111.737	103.529	118.929			
1/5/2007	14:00	132.974	130.861	127.43	107.887	111.708	103.499	118.903			
1/5/2007	14:30	132.953	130.84	127.416	107.87	111.689	103.482	118.884			
1/5/2007	15:00	132.946	130.833	127.404	107.863	111.682	103.471	118.871			
1/5/2007	15:30	132.939	130.829	127.404	107.865	111.68	103.468	118.858			
1/5/2007	16:00	132.947	130.838	127.416	107.877	111.693	103.478	118.848			
1/5/2007	16:30	132.958	130.846	127.425	107.887	111.702	103.487	118.841			
1/5/2007	17:00	132.976	130.864	127.446	107.908	111.718	103.506	118.837			
1/5/2007	17:30	132.982	130.87	127.451	107.913	111.725	103.513	118.829			
1/5/2007	18:00	132.99	130.877	127.457	107.922	111.735	103.522	118.824			
1/5/2007	18:30	132.995	130.883	127.462	107.927	111.742	103.529	118.812			
1/5/2007	19:00	133.001	130.892	127.469	107.936	111.748	103.537	118.803			
1/5/2007	19:30	133.007	130.896	127.476	107.941	111.752	103.541	118.796			
1/5/2007	20:00	133.009	130.898	127.476	107.941	111.754	103.546	118.786			
1/5/2007	20:30	133.009	130.9	127.476	107.941	111.756	103.543	118.773			
1/5/2007	21:00	133.005	130.894	127.474	107.937	111.748	103.539	118.758			
1/5/2007	21:30	133.001	130.889	127.466	107.93	111.743	103.532	118.745			
1/5/2007	22:00	133.003	130.892	127.471	107.937	111.746	103.534	118.73			
1/5/2007	22:30	133.005	130.894	127.471	107.934	111.75	103.536	118.719			
1/5/2007	23:00	132.997	130.885	127.466	107.929	111.739	103.527	118.705			
1/5/2007	23:30	133.001	130.889	127.469	107.932	111.744	103.532	118.69			
1/6/2007	0:00	132.999	130.887	127.464	107.928	111.739	103.529	118.679			
1/6/2007	0:30	132.99	130.879	127.457	107.922	111.731	103.52	118.666			
1/6/2007	1:00	132.983	130.872	127.453	107.916	111.723	103.515	118.653			
1/6/2007	1:30	132.98	130.872	127.451	107.911	111.722	103.513	118.64			
1/6/2007	2:00	132.972	130.861	127.439	107.899	111.71	103.504	118.628			
1/6/2007	2:30	132.964	130.853	127.432	107.894	111.704	103.492	118.615			
1/6/2007	3:00	132.956	130.844	127.425	107.886	111.695	103.487	118.602			
1/6/2007	3:30	132.949	130.84	127.418	107.88	111.691	103.482	118.591			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/6/2007	4:00	132.941	130.831	127.409	107.872	111.682	103.473	118.58			
1/6/2007	4:30	132.937	130.827	127.407	107.868	111.676	103.468	118.568			
1/6/2007	5:00	132.939	130.829	127.407	107.87	111.682	103.47	118.557			
1/6/2007	5:30	132.931	130.821	127.4	107.863	111.674	103.463	118.546			
1/6/2007	6:00	132.928	130.818	127.399	107.863	111.67	103.461	118.536			
1/6/2007	6:30	132.928	130.818	127.399	107.861	111.672	103.459	118.525			
1/6/2007	7:00	132.922	130.812	127.393	107.856	111.662	103.452	118.518			
1/6/2007	7:30	132.92	130.81	127.388	107.851	111.662	103.454	118.508			
1/6/2007	8:00	132.915	130.805	127.386	107.847	111.657	103.447	118.497			
1/6/2007	8:30	132.91	130.801	127.381	107.842	111.651	103.445	118.488			
1/6/2007	9:00	132.904	130.795	127.374	107.836	111.647	103.433	118.482			
1/6/2007	9:30	134.257	132.071	128.443	108.218	111.766	103.65	118.677			
1/6/2007	10:00	134.774	132.577	128.725	108.442	112.066	103.987	118.936			
1/6/2007	10:30	134.89	132.691	128.824	108.53	112.162	104.086	119.002			
1/6/2007	11:00	134.944	132.747	128.878	108.575	112.211	104.138	119.034			
1/6/2007	11:30	134.976	132.777	128.906	108.599	112.242	104.168	119.051			
1/6/2007	12:00	134.991	132.794	128.917	108.611	112.253	104.183	119.062			
1/6/2007	12:30	134.995	132.798	128.922	108.615	112.255	104.183	119.072			
1/6/2007	13:00	134.991	132.794	128.915	108.604	112.253	104.178	119.166			
1/6/2007	13:30	134.976	132.777	128.899	108.585	112.234	104.162	119.181			
1/6/2007	14:00	134.962	132.766	128.889	108.575	112.224	104.15	119.194			
1/6/2007	14:30	134.96	132.764	128.887	108.58	112.226	104.154	119.201			
1/6/2007	15:00	134.964	132.768	128.891	108.587	112.232	104.159	119.218			
1/6/2007	15:30	133.334	131.221	127.714	108.13	111.979	103.787	118.871			
1/6/2007	16:00	133.098	130.988	127.538	107.975	111.8	103.593	118.698			
1/6/2007	16:30	133.019	130.911	127.474	107.918	111.737	103.529	118.63			
1/6/2007	17:00	132.987	130.879	127.446	107.897	111.714	103.499	118.6			
1/6/2007	17:30	132.974	130.866	127.437	107.891	111.706	103.492	118.58			
1/6/2007	18:00	132.968	130.859	127.423	107.882	111.702	103.487	118.568			
1/6/2007	18:30	132.956	130.846	127.418	107.877	111.693	103.48	118.559			
1/6/2007	19:00	132.954	130.844	127.413	107.874	111.693	103.478	118.551			
1/6/2007	19:30	132.935	130.825	127.395	107.856	111.676	103.459	118.546			
1/6/2007	20:00	132.921	130.812	127.381	107.842	111.662	103.447	118.54			
1/6/2007	20:30	132.896	130.788	127.358	107.818	111.636	103.423	118.534			
1/6/2007	21:00	132.895	130.788	127.365	107.825	111.638	103.423	118.529			
1/6/2007	21:30	132.894	130.786	127.356	107.818	111.636	103.423	118.525			
1/6/2007	22:00	132.892	130.784	127.358	107.82	111.634	103.421	118.521			
1/6/2007	22:30	132.891	130.784	127.356	107.818	111.634	103.419	118.519			
1/6/2007	23:00	132.89	130.782	127.356	107.818	111.634	103.419	118.514			
1/6/2007	23:30	132.9	130.793	127.365	107.827	111.642	103.428	118.51			
1/7/2007	0:00	132.89	130.784	127.353	107.817	111.634	103.416	118.508			
1/7/2007	0:30	132.879	130.771	127.344	107.806	111.621	103.407	118.506			
1/7/2007	1:00	132.871	130.765	127.333	107.796	111.611	103.397	118.503			
1/7/2007	1:30	132.861	130.754	127.323	107.786	111.6	103.385	118.499			
1/7/2007	2:00	132.848	130.743	127.314	107.777	111.592	103.378	118.499			
1/7/2007	2:30	132.842	130.737	127.309	107.77	111.586	103.371	118.495			
1/7/2007	3:00	132.844	130.737	127.314	107.777	111.586	103.374	118.493			
1/7/2007	3:30	132.844	130.739	127.312	107.775	111.588	103.374	118.491			
1/7/2007	4:00	132.85	130.743	127.319	107.784	111.596	103.381	118.488			
1/7/2007	4:30	132.85	130.743	127.314	107.778	111.594	103.381	118.488			
1/7/2007	5:00	132.842	130.734	127.307	107.772	111.584	103.371	118.484			
1/7/2007	5:30	132.836	130.73	127.309	107.773	111.582	103.367	118.482			
1/7/2007	6:00	132.85	130.741	127.319	107.784	111.598	103.381	118.478			
1/7/2007	6:30	132.855	130.745	127.321	107.786	111.598	103.386	118.478			
1/7/2007	7:00	132.871	130.762	127.337	107.801	111.617	103.404	118.474			
1/7/2007	7:30	132.881	130.773	127.351	107.815	111.626	103.416	118.471			
1/7/2007	8:00	132.884	130.775	127.356	107.822	111.63	103.416	118.463			
1/7/2007	8:30	132.898	130.788	127.362	107.827	111.643	103.43	118.457			
1/7/2007	9:00	132.904	130.793	127.37	107.836	111.649	103.44	118.452			
1/7/2007	9:30	134.353	132.185	128.357	108.225	111.807	103.692	118.685			
1/7/2007	10:00	134.774	132.598	128.614	108.434	112.078	103.984	118.948			
1/7/2007	10:30	134.892	132.714	128.718	108.527	112.177	104.088	119.027			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/7/2007	11:00	134.96	132.781	128.781	108.583	112.238	104.15	119.068			
1/7/2007	11:30	134.997	132.818	128.82	108.62	112.274	104.19	119.087			
1/7/2007	12:00	135.018	132.839	128.834	108.633	112.291	104.206	119.098			
1/7/2007	12:30	135.026	132.848	128.846	108.642	112.301	104.22	119.107			
1/7/2007	13:00	135.031	132.852	128.848	108.646	112.308	104.225	119.113			
1/7/2007	13:30	133.427	131.313	127.802	108.217	112.074	103.883	118.803			
1/7/2007	14:00	133.177	131.066	127.617	108.056	111.882	103.676	118.625			
1/7/2007	14:30	133.09	130.98	127.538	107.987	111.807	103.6	118.553			
1/7/2007	15:00	132.945	130.935	127.504	107.956	111.777	103.565	118.512			
1/7/2007	15:30	133.018	130.909	127.481	107.932	111.75	103.541	118.489			
1/7/2007	16:00	133.003	130.894	127.469	107.925	111.741	103.529	118.471			
1/7/2007	16:30	133.001	130.889	127.464	107.923	111.737	103.525	118.456			
1/7/2007	17:00	132.99	130.883	127.455	107.913	111.731	103.518	118.452			
1/7/2007	17:30	132.979	130.87	127.444	107.903	111.72	103.506	118.441			
1/7/2007	18:00	132.968	130.859	127.432	107.894	111.71	103.499	118.429			
1/7/2007	18:30	132.96	130.851	127.427	107.887	111.702	103.489	118.418			
1/7/2007	19:00	132.948	130.84	127.409	107.874	111.689	103.477	118.41			
1/7/2007	19:30	132.931	130.821	127.395	107.854	111.67	103.459	118.405			
1/7/2007	20:00	132.921	130.812	127.383	107.846	111.664	103.449	118.395			
1/7/2007	20:30	132.906	130.797	127.367	107.83	111.645	103.433	118.39			
1/7/2007	21:00	132.895	130.786	127.358	107.822	111.636	103.423	118.384			
1/7/2007	21:30	132.883	130.775	127.349	107.813	111.624	103.411	118.379			
1/7/2007	22:00	132.877	130.769	127.339	107.803	111.621	103.407	118.377			
1/7/2007	22:30	132.863	130.756	127.33	107.791	111.602	103.388	118.375			
1/7/2007	23:00	132.857	130.752	127.321	107.784	111.6	103.385	118.375			
1/7/2007	23:30	132.853	130.745	127.319	107.782	111.596	103.383	118.371			
1/8/2007	0:00	132.848	130.743	127.314	107.777	111.59	103.378	118.371			
1/8/2007	0:30	132.836	130.73	127.3	107.765	111.581	103.364	118.369			
1/8/2007	1:00	132.826	130.719	127.291	107.753	111.569	103.352	118.371			
1/8/2007	1:30	132.801	130.696	127.263	107.723	111.542	103.329	118.371			
1/8/2007	2:00	132.78	130.674	127.242	107.703	111.52	103.308	118.371			
1/8/2007	2:30	132.766	130.659	127.233	107.694	111.506	103.294	118.373			
1/8/2007	3:00	132.764	130.659	127.231	107.691	111.506	103.291	118.375			
1/8/2007	3:30	132.766	130.659	127.23	107.696	111.51	103.294	118.375			
1/8/2007	4:00	132.763	130.659	127.231	107.694	111.508	103.294	118.379			
1/8/2007	4:30	132.751	130.646	127.221	107.682	111.497	103.279	118.384			
1/8/2007	5:00	132.743	130.638	127.208	107.67	111.489	103.272	118.388			
1/8/2007	5:30	132.72	130.616	127.182	107.646	111.464	103.251	118.392			
1/8/2007	6:00	132.695	130.59	127.164	107.623	111.44	103.225	118.397			
1/8/2007	6:30	132.7	130.597	127.171	107.634	111.446	103.232	118.399			
1/8/2007	7:00	132.712	130.609	127.191	107.656	111.461	103.246	118.403			
1/8/2007	7:30	132.724	130.62	127.196	107.66	111.472	103.256	118.407			
1/8/2007	8:00	134.431	132.239	128.422	108.165	111.773	103.68	118.814			
1/8/2007	8:30	134.679	132.484	128.623	108.337	111.967	103.883	118.993			
1/8/2007	9:00	134.788	132.592	128.718	108.425	112.062	103.98	119.13			
1/8/2007	9:30	134.849	132.652	128.783	108.483	112.118	104.036	119.177			
1/8/2007	10:00	134.896	132.699	128.825	108.523	112.165	104.086	119.207			
1/8/2007	10:30	134.935	132.74	128.866	108.564	112.205	104.124	119.229			
1/8/2007	11:00	134.981	132.783	128.91	108.608	112.247	104.171	119.248			
1/8/2007	11:30	135	132.803	128.924	108.62	112.27	104.19	119.265			
1/8/2007	12:00	135.01	132.809	128.938	108.635	112.276	104.199	119.278			
1/8/2007	12:30	135.024	132.826	128.95	108.645	112.289	104.213	119.286			
1/8/2007	13:00	135.035	132.835	128.959	108.654	112.299	104.223	119.299			
1/8/2007	13:30	135.041	132.839	128.968	108.663	112.308	104.232	119.306			
1/8/2007	14:00	133.503	131.387	127.837	108.242	112.112	103.928	119.013			
1/8/2007	14:30	133.193	131.081	127.626	108.065	111.893	103.688	118.782			
1/8/2007	15:00	133.098	130.986	127.545	107.992	111.815	103.605	118.7			
1/8/2007	15:30	133.052	130.943	127.515	107.966	111.782	103.567	118.657			
1/8/2007	16:00	133.028	130.922	127.49	107.944	111.764	103.546	118.63			
1/8/2007	16:30	133.02	130.908	127.478	107.937	111.754	103.539	118.611			
1/8/2007	17:00	133.024	130.915	127.488	107.946	111.763	103.548	118.595			
1/8/2007	17:30	133.024	130.913	127.488	107.949	111.764	103.551	118.583			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/8/2007	18:00	133.026	130.917	127.492	107.954	111.773	103.558	118.568			
1/8/2007	18:30	133.028	130.922	127.494	107.956	111.769	103.558	118.561			
1/8/2007	19:00	133.034	130.926	127.499	107.961	111.777	103.565	118.548			
1/8/2007	19:30	133.032	130.924	127.499	107.963	111.777	103.562	118.534			
1/8/2007	20:00	133.041	130.932	127.508	107.974	111.788	103.572	118.523			
1/8/2007	20:30	133.049	130.939	127.513	107.979	111.794	103.579	118.51			
1/8/2007	21:00	133.059	130.95	127.529	107.994	111.803	103.588	118.497			
1/8/2007	21:30	133.067	130.958	127.536	107.999	111.813	103.6	118.482			
1/8/2007	22:00	133.055	130.948	127.518	107.982	111.802	103.586	118.472			
1/8/2007	22:30	133.057	130.95	127.527	107.99	111.802	103.588	118.457			
1/8/2007	23:00	133.051	130.943	127.52	107.986	111.792	103.581	118.444			
1/8/2007	23:30	133.055	130.948	127.52	107.987	111.8	103.588	118.426			
1/9/2007	0:00	133.055	130.948	127.525	107.987	111.798	103.588	118.412			
1/9/2007	0:30	133.051	130.943	127.518	107.98	111.794	103.584	118.397			
1/9/2007	1:00	133.041	130.932	127.508	107.973	111.782	103.572	118.386			
1/9/2007	1:30	133.028	130.92	127.497	107.961	111.767	103.56	118.369			
1/9/2007	2:00	133.028	130.922	127.497	107.958	111.769	103.558	118.354			
1/9/2007	2:30	133.032	130.926	127.504	107.966	111.777	103.565	118.343			
1/9/2007	3:00	133.036	130.928	127.506	107.97	111.779	103.567	118.328			
1/9/2007	3:30	133.042	130.935	127.513	107.978	111.786	103.574	118.313			
1/9/2007	4:00	133.049	130.941	127.515	107.98	111.79	103.584	118.298			
1/9/2007	4:30	133.041	130.93	127.506	107.968	111.782	103.569	118.285			
1/9/2007	5:00	133.028	130.917	127.497	107.959	111.767	103.56	118.268			
1/9/2007	5:30	133.021	130.909	127.485	107.944	111.762	103.553	118.249			
1/9/2007	6:00	133.007	130.9	127.485	107.946	111.752	103.543	118.234			
1/9/2007	6:30	133.015	130.907	127.49	107.951	111.756	103.551	118.225			
1/9/2007	7:00	133.02	130.913	127.488	107.951	111.764	103.553	118.21			
1/9/2007	7:30	133.02	130.911	127.492	107.956	111.763	103.555	118.194			
1/9/2007	8:00	134.704	132.534	128.582	108.423	112.051	103.952	118.561			
1/9/2007	8:30	134.9	132.723	128.737	108.553	112.202	104.112	118.702			
1/9/2007	9:00	134.98	132.805	128.806	108.615	112.268	104.183	118.873			
1/9/2007	9:30	135.006	132.831	128.839	108.647	112.293	104.204	118.891			
1/9/2007	10:00	135.047	132.874	128.88	108.685	112.335	104.249	118.903			
1/9/2007	10:30	135.066	132.893	128.899	108.704	112.354	104.27	118.91			
1/9/2007	11:00	135.093	132.917	128.913	108.718	112.375	104.293	118.912			
1/9/2007	11:30	133.404	131.292	127.823	108.254	112.085	103.888	118.519			
1/9/2007	12:00	133.239	131.128	127.682	108.128	111.95	103.744	118.478			
1/9/2007	12:30	133.16	131.053	127.615	108.065	111.882	103.676	118.416			
1/9/2007	13:00	133.105	130.995	127.557	108.011	111.832	103.621	118.384			
1/9/2007	13:30	133.051	130.943	127.511	107.968	111.784	103.572	118.36			
1/9/2007	14:00	133.012	130.905	127.474	107.93	111.744	103.534	118.343			
1/9/2007	14:30	132.983	130.877	127.444	107.901	111.718	103.506	118.326			
1/9/2007	15:00	132.96	130.853	127.423	107.88	111.695	103.482	118.313			
1/9/2007	15:30	132.935	130.829	127.402	107.859	111.674	103.459	118.305			
1/9/2007	16:00	132.916	130.812	127.381	107.843	111.655	103.442	118.298			
1/9/2007	16:30	132.902	130.797	127.367	107.827	111.64	103.428	118.296			
1/9/2007	17:00	132.889	130.784	127.356	107.817	111.628	103.416	118.292			
1/9/2007	17:30	132.881	130.775	127.344	107.805	111.622	103.414	118.383			
1/9/2007	18:00	132.871	130.767	127.335	107.799	111.615	103.402	118.368			
1/9/2007	18:30	132.865	130.76	127.33	107.794	111.607	103.395	118.364			
1/9/2007	19:00	132.865	130.758	127.333	107.796	111.605	103.393	118.362			
1/9/2007	19:30	132.855	130.752	127.326	107.787	111.598	103.385	118.364			
1/9/2007	20:00	132.855	130.747	127.323	107.784	111.596	103.383	118.364			
1/9/2007	20:30	132.848	130.743	127.316	107.778	111.59	103.381	118.364			
1/9/2007	21:00	132.844	130.739	127.309	107.772	111.586	103.371	118.364			
1/9/2007	21:30	132.838	130.734	127.302	107.765	111.582	103.369	118.365			
1/9/2007	22:00	132.819	130.713	127.284	107.746	111.563	103.35	118.367			
1/9/2007	22:30	132.803	130.698	127.268	107.73	111.546	103.331	118.369			
1/9/2007	23:00	132.786	130.681	127.252	107.715	111.529	103.315	118.373			
1/9/2007	23:30	132.786	130.681	127.252	107.717	111.531	103.315	118.373			
1/10/2007	0:00	132.772	130.668	127.235	107.699	111.514	103.298	118.38			
1/10/2007	0:30	132.747	130.646	127.215	107.675	111.491	103.277	118.386			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/10/2007	1:00	132.735	130.629	127.201	107.661	111.478	103.263	118.392			
1/10/2007	1:30	132.716	130.614	127.184	107.646	111.461	103.244	118.397			
1/10/2007	2:00	132.702	130.599	127.166	107.629	111.443	103.23	118.405			
1/10/2007	2:30	132.687	130.586	127.157	107.618	111.432	103.218	118.414			
1/10/2007	3:00	132.683	130.582	127.15	107.613	111.426	103.211	118.422			
1/10/2007	3:30	132.673	130.569	127.138	107.604	111.417	103.199	118.431			
1/10/2007	4:00	132.66	130.56	127.127	107.589	111.403	103.19	118.441			
1/10/2007	4:30	132.648	130.545	127.117	107.579	111.394	103.176	118.448			
1/10/2007	5:00	132.64	130.539	127.106	107.566	111.386	103.169	118.457			
1/10/2007	5:30	132.629	130.53	127.101	107.563	111.379	103.161	118.463			
1/10/2007	6:00	132.627	130.526	127.094	107.556	111.371	103.159	118.472			
1/10/2007	6:30	132.621	130.524	127.094	107.556	111.373	103.147	118.48			
1/10/2007	7:00	132.621	130.519	127.092	107.553	111.371	103.15	118.489			
1/10/2007	7:30	132.619	130.517	127.087	107.551	111.365	103.147	118.497			
1/10/2007	8:00	134.262	132.075	128.274	108.023	111.621	103.527	118.85			
1/10/2007	8:30	134.528	132.336	128.466	108.185	111.817	103.735	119.032			
1/10/2007	9:00	134.619	132.428	128.552	108.259	111.899	103.817	119.137			
1/10/2007	9:30	134.671	132.478	128.6	108.301	111.944	103.862	119.19			
1/10/2007	10:00	134.706	132.516	128.635	108.337	111.981	103.9	119.232			
1/10/2007	10:30	134.741	132.551	128.67	108.371	112.017	103.935	119.265			
1/10/2007	11:00	134.766	132.575	128.684	108.396	112.042	103.956	119.297			
1/10/2007	11:30	133.014	130.911	127.437	107.868	111.706	103.504	118.878			
1/10/2007	12:00	132.869	130.765	127.314	107.761	111.588	103.376	118.771			
1/10/2007	12:30	132.797	130.694	127.249	107.701	111.525	103.313	118.73			
1/10/2007	13:00	132.747	130.646	127.205	107.661	111.482	103.27	118.702			
1/10/2007	13:30	132.71	130.605	127.168	107.622	111.445	103.227	118.688			
1/10/2007	14:00	132.671	130.575	127.134	107.592	111.413	103.202	118.685			
1/10/2007	14:30	132.656	130.556	127.122	107.579	111.402	103.18	118.681			
1/10/2007	15:00	132.65	130.549	127.113	107.572	111.396	103.178	118.687			
1/10/2007	15:30	132.638	130.537	127.104	107.565	111.383	103.161	118.69			
1/10/2007	16:00	132.631	130.537	127.108	107.573	111.384	103.164	118.7			
1/10/2007	16:30	132.65	130.549	127.122	107.582	111.4	103.176	118.705			
1/10/2007	17:00	132.656	130.552	127.12	107.585	111.402	103.183	118.713			
1/10/2007	17:30	132.662	130.56	127.134	107.601	111.411	103.192	118.72			
1/10/2007	18:00	132.669	130.569	127.136	107.601	111.417	103.197	118.728			
1/10/2007	18:30	132.671	130.567	127.138	107.604	111.419	103.202	118.735			
1/10/2007	19:00	132.687	130.584	127.154	107.622	111.438	103.22	118.741			
1/10/2007	19:30	132.702	130.599	127.171	107.637	111.453	103.235	118.749			
1/10/2007	20:00	132.726	130.623	127.191	107.66	111.478	103.26	118.75			
1/10/2007	20:30	132.739	130.638	127.205	107.675	111.493	103.277	118.758			
1/10/2007	21:00	132.747	130.644	127.217	107.684	111.501	103.282	118.76			
1/10/2007	21:30	132.755	130.651	127.224	107.691	111.508	103.289	118.764			
1/10/2007	22:00	132.764	130.657	127.228	107.696	111.514	103.298	118.766			
1/10/2007	22:30	132.751	130.648	127.215	107.682	111.505	103.284	118.769			
1/10/2007	23:00	132.749	130.644	127.215	107.682	111.502	103.282	118.767			
1/10/2007	23:30	132.749	130.646	127.217	107.684	111.502	103.282	118.769			
1/11/2007	0:00	132.747	130.644	127.215	107.684	111.499	103.282	118.769			
1/11/2007	0:30	132.741	130.633	127.205	107.673	111.491	103.272	118.769			
1/11/2007	1:00	132.737	130.633	127.201	107.668	111.485	103.27	118.771			
1/11/2007	1:30	132.729	130.625	127.194	107.663	111.48	103.26	118.771			
1/11/2007	2:00	132.722	130.618	127.189	107.655	111.472	103.253	118.771			
1/11/2007	2:30	132.716	130.61	127.182	107.649	111.466	103.246	118.771			
1/11/2007	3:00	132.714	130.61	127.182	107.649	111.464	103.246	118.771			
1/11/2007	3:30	132.718	130.614	127.187	107.653	111.466	103.249	118.773			
1/11/2007	4:00	132.718	130.614	127.187	107.653	111.47	103.251	118.775			
1/11/2007	4:30	132.716	130.61	127.178	107.643	111.464	103.251	118.777			
1/11/2007	5:00	132.704	130.599	127.171	107.636	111.453	103.237	118.779			
1/11/2007	5:30	132.702	130.595	127.164	107.627	111.449	103.235	118.781			
1/11/2007	6:00	132.695	130.588	127.163	107.629	111.443	103.225	118.782			
1/11/2007	6:30	132.698	130.592	127.166	107.632	111.443	103.225	118.786			
1/11/2007	7:00	132.698	130.592	127.161	107.631	111.447	103.227	118.79			
1/11/2007	7:30	132.704	130.597	127.171	107.637	111.451	103.235	118.788			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/11/2007	8:00	134.32	132.153	128.228	108.075	111.685	103.579	119.145			
1/11/2007	8:30	134.597	132.422	128.429	108.246	111.891	103.796	119.34			
1/11/2007	9:00	134.7	132.525	128.517	108.325	111.981	103.885	119.425			
1/11/2007	9:30	134.756	132.581	128.566	108.371	112.034	103.942	119.468			
1/11/2007	10:00	134.787	132.613	128.605	108.408	112.066	103.973	119.549			
1/11/2007	10:30	134.816	132.641	128.637	108.442	112.093	104.001	119.573			
1/11/2007	11:00	134.845	132.671	128.663	108.463	112.127	104.034	119.592			
1/11/2007	11:30	134.863	132.689	128.679	108.48	112.139	104.046	119.607			
1/11/2007	12:00	134.256	132.056	127.832	108.215	112.156	104.065	119.618			
1/11/2007	12:30	133.1	130.991	127.529	107.972	111.809	103.598	119.162			
1/11/2007	13:00	132.981	130.872	127.425	107.877	111.702	103.492	119.074			
1/11/2007	13:30	132.915	130.806	127.372	107.829	111.644	103.433	119.028			
1/11/2007	14:00	132.89	130.782	127.346	107.806	111.626	103.412	119.002			
1/11/2007	14:30	132.879	130.771	127.337	107.797	111.621	103.404	118.989			
1/11/2007	15:00	132.894	130.784	127.365	107.829	111.64	103.423	118.978			
1/11/2007	15:30	132.898	130.788	127.362	107.827	111.64	103.426	118.972			
1/11/2007	16:00	132.931	130.823	127.399	107.866	111.683	103.466	118.961			
1/11/2007	16:30	132.96	130.851	127.43	107.899	111.714	103.496	118.951			
1/11/2007	17:00	132.983	130.874	127.45	107.92	111.735	103.52	118.944			
1/11/2007	17:30	132.997	130.887	127.467	107.935	111.748	103.532	118.933			
1/11/2007	18:00	133.014	130.902	127.474	107.944	111.762	103.548	118.92			
1/11/2007	18:30	134.749	132.551	128.718	108.47	112.087	104.001	119.325			
1/11/2007	19:00	134.948	132.749	128.887	108.613	112.247	104.168	119.457			
1/11/2007	19:30	135.037	132.839	128.98	108.695	112.327	104.251	119.506			
1/11/2007	20:00	135.113	132.915	129.049	108.759	112.398	104.322	119.53			
1/11/2007	20:30	133.613	131.496	127.953	108.372	112.24	104.053	119.252			
1/11/2007	21:00	133.322	131.21	127.763	108.209	112.036	103.831	119.025			
1/11/2007	21:30	133.245	131.135	127.703	108.159	111.979	103.765	118.936			
1/11/2007	22:00	133.21	131.098	127.668	108.128	111.944	103.732	118.893			
1/11/2007	22:30	133.191	131.079	127.649	108.113	111.929	103.718	118.856			
1/11/2007	23:00	133.173	131.059	127.633	108.098	111.914	103.699	118.826			
1/11/2007	23:30	133.169	131.057	127.633	108.101	111.914	103.702	118.796			
1/12/2007	0:00	133.142	131.031	127.601	108.066	111.885	103.673	118.773			
1/12/2007	0:30	133.136	131.025	127.601	108.068	111.882	103.666	118.745			
1/12/2007	1:00	133.119	131.006	127.582	108.051	111.864	103.647	118.724			
1/12/2007	1:30	133.107	130.997	127.571	108.039	111.851	103.638	118.704			
1/12/2007	2:00	133.098	130.988	127.568	108.034	111.845	103.631	118.685			
1/12/2007	2:30	133.1	130.991	127.564	108.03	111.847	103.633	118.666			
1/12/2007	3:00	133.09	130.98	127.557	108.023	111.838	103.624	118.647			
1/12/2007	3:30	133.09	130.98	127.559	108.025	111.838	103.624	118.63			
1/12/2007	4:00	133.084	130.973	127.547	108.015	111.83	103.614	118.642			
1/12/2007	4:30	133.08	130.969	127.545	108.011	111.824	103.612	118.625			
1/12/2007	5:00	133.065	130.954	127.527	107.991	111.809	103.598	118.61			
1/12/2007	5:30	133.055	130.943	127.52	107.987	111.8	103.586	118.593			
1/12/2007	6:00	133.051	130.941	127.518	107.982	111.8	103.584	118.574			
1/12/2007	6:30	133.038	130.928	127.501	107.968	111.784	103.572	118.561			
1/12/2007	7:00	133.036	130.926	127.506	107.972	111.782	103.57	118.548			
1/12/2007	7:30	133.026	130.915	127.497	107.963	111.769	103.56	118.538			
1/12/2007	8:00	134.59	132.398	128.644	108.415	111.992	103.897	118.792			
1/12/2007	8:30	134.923	132.725	128.873	108.602	112.228	104.147	118.997			
1/12/2007	9:00	135.01	132.811	128.949	108.664	112.299	104.22	119.06			
1/12/2007	9:30	135.059	132.859	128.998	108.706	112.341	104.268	119.09			
1/12/2007	10:00	133.629	131.509	127.927	108.332	112.207	104.032	118.888			
1/12/2007	10:30	133.272	131.158	127.712	108.154	111.977	103.772	118.619			
1/12/2007	11:00	133.173	131.062	127.629	108.08	111.899	103.688	118.531			
1/12/2007	11:30	133.127	131.016	127.582	108.039	111.863	103.647	118.474			
1/12/2007	12:00	133.09	130.982	127.547	108.005	111.826	103.617	118.446			
1/12/2007	12:30	133.059	130.948	127.513	107.972	111.794	103.584	118.426			
1/12/2007	13:00	133.024	130.913	127.483	107.944	111.76	103.551	118.407			
1/12/2007	13:30	133.007	130.9	127.474	107.932	111.748	103.537	118.386			
1/12/2007	14:00	132.972	130.861	127.441	107.901	111.706	103.494	118.377			
1/12/2007	14:30	132.96	130.853	127.423	107.882	111.701	103.489	118.36			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/12/2007	15:00	132.931	130.823	127.39	107.849	111.67	103.459	118.352			
1/12/2007	15:30	132.921	130.812	127.388	107.848	111.662	103.447	118.341			
1/12/2007	16:00	132.912	130.803	127.379	107.839	111.657	103.442	118.332			
1/12/2007	16:30	132.912	130.806	127.381	107.846	111.657	103.442	118.324			
1/12/2007	17:00	132.908	130.799	127.376	107.842	111.651	103.437	118.318			
1/12/2007	17:30	132.906	130.797	127.376	107.842	111.651	103.435	118.311			
1/12/2007	18:00	132.917	130.808	127.388	107.853	111.661	103.444	118.302			
1/12/2007	18:30	132.925	130.814	127.39	107.854	111.67	103.454	118.294			
1/12/2007	19:00	132.917	130.808	127.385	107.853	111.662	103.447	118.288			
1/12/2007	19:30	132.912	130.806	127.379	107.842	111.655	103.44	118.281			
1/12/2007	20:00	132.915	130.806	127.381	107.847	111.661	103.444	118.271			
1/12/2007	20:30	132.912	130.803	127.383	107.846	111.653	103.44	118.268			
1/12/2007	21:00	132.902	130.793	127.365	107.83	111.645	103.433	118.262			
1/12/2007	21:30	132.894	130.786	127.363	107.827	111.638	103.423	118.255			
1/12/2007	22:00	132.894	130.786	127.358	107.824	111.64	103.423	118.247			
1/12/2007	22:30	132.894	130.788	127.363	107.829	111.642	103.428	118.24			
1/12/2007	23:00	132.89	130.782	127.358	107.822	111.636	103.423	118.232			
1/12/2007	23:30	132.892	130.782	127.36	107.827	111.636	103.421	118.226			
1/13/2007	0:00	132.89	130.793	127.342	107.834	111.642	103.426	118.217			
1/13/2007	0:30	132.881	130.778	127.358	107.824	111.628	103.416	118.206			
1/13/2007	1:00	132.886	130.782	127.353	107.82	111.632	103.419	118.198			
1/13/2007	1:30	132.888	130.778	127.356	107.82	111.634	103.419	118.189			
1/13/2007	2:00	132.863	130.754	127.328	107.792	111.605	103.393	118.185			
1/13/2007	2:30	132.851	130.745	127.323	107.789	111.598	103.383	118.179			
1/13/2007	3:00	132.853	130.743	127.323	107.789	111.598	103.383	118.172			
1/13/2007	3:30	132.842	130.732	127.312	107.775	111.588	103.374	118.168			
1/13/2007	4:00	132.819	130.711	127.286	107.753	111.563	103.35	118.17			
1/13/2007	4:30	132.795	130.689	127.277	107.744	111.542	103.327	118.166			
1/13/2007	5:00	132.828	130.719	127.298	107.763	111.577	103.362	118.159			
1/13/2007	5:30	132.828	130.724	127.293	107.758	111.577	103.362	118.159			
1/13/2007	6:00	132.819	130.715	127.291	107.756	111.567	103.35	118.157			
1/13/2007	6:30	132.803	130.696	127.27	107.735	111.548	103.336	118.157			
1/13/2007	7:00	132.801	130.694	127.275	107.739	111.544	103.331	118.151			
1/13/2007	7:30	132.832	130.724	127.291	107.758	111.581	103.369	118.148			
1/13/2007	8:00	132.803	130.696	127.272	107.739	111.546	103.334	118.149			
1/13/2007	8:30	132.805	130.696	127.272	107.739	111.546	103.331	118.148			
1/13/2007	9:00	134.115	131.957	128.205	108.08	111.645	103.51	118.349			
1/13/2007	9:30	134.634	132.461	128.471	108.287	111.927	103.831	118.655			
1/13/2007	10:00	134.731	132.555	128.566	108.373	112.007	103.916	118.747			
1/13/2007	10:30	134.811	132.635	128.63	108.432	112.083	103.994	118.794			
1/13/2007	11:00	134.876	132.699	128.693	108.49	112.146	104.058	118.82			
1/13/2007	11:30	134.913	132.736	128.73	108.53	112.184	104.1	118.839			
1/13/2007	12:00	134.913	132.738	128.721	108.516	112.188	104.1	118.854			
1/13/2007	12:30	134.909	132.734	128.727	108.525	112.181	104.095	118.95			
1/13/2007	13:00	134.921	132.747	128.739	108.537	112.192	104.105	118.957			
1/13/2007	13:30	134.915	132.74	128.725	108.52	112.19	104.1	118.972			
1/13/2007	14:00	133.398	131.285	127.714	108.123	112.005	103.817	118.709			
1/13/2007	14:30	133.069	130.96	127.497	107.937	111.777	103.567	118.474			
1/13/2007	15:00	132.958	130.851	127.409	107.859	111.68	103.468	118.397			
1/13/2007	15:30	132.91	130.806	127.374	107.827	111.643	103.428	118.362			
1/13/2007	16:00	132.888	130.782	127.328	107.786	111.626	103.412	118.345			
1/13/2007	16:30	132.857	130.751	127.321	107.778	111.6	103.379	118.333			
1/13/2007	17:00	132.853	130.745	127.318	107.78	111.596	103.376	118.33			
1/13/2007	17:30	132.846	130.743	127.314	107.778	111.596	103.376	118.326			
1/13/2007	18:00	132.834	130.728	127.305	107.768	111.581	103.362	118.324			
1/13/2007	18:30	132.838	130.732	127.307	107.77	111.584	103.367	118.324			
1/13/2007	19:00	132.838	130.732	127.302	107.767	111.584	103.367	118.322			
1/13/2007	19:30	132.838	130.732	127.309	107.775	111.588	103.369	118.32			
1/13/2007	20:00	132.844	130.739	127.312	107.777	111.594	103.376	118.32			
1/13/2007	20:30	132.848	130.743	127.314	107.78	111.598	103.381	118.318			
1/13/2007	21:00	132.834	130.73	127.302	107.766	111.585	103.367	118.318			
1/13/2007	21:30	132.828	130.724	127.295	107.76	111.579	103.362	118.317			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/13/2007	22:00	132.832	130.726	127.3	107.765	111.582	103.364	118.315			
1/13/2007	22:30	132.836	130.732	127.305	107.772	111.588	103.374	118.313			
1/13/2007	23:00	132.83	130.726	127.3	107.768	111.584	103.364	118.313			
1/13/2007	23:30	132.838	130.734	127.307	107.773	111.588	103.369	118.309			
1/14/2007	0:00	132.834	130.73	127.305	107.772	111.586	103.369	118.309			
1/14/2007	0:30	132.836	130.73	127.3	107.767	111.586	103.369	118.309			
1/14/2007	1:00	132.83	130.726	127.298	107.765	111.584	103.367	118.305			
1/14/2007	1:30	132.817	130.713	127.296	107.76	111.569	103.35	118.303			
1/14/2007	2:00	132.819	130.715	127.291	107.756	111.571	103.352	118.302			
1/14/2007	2:30	132.815	130.711	127.282	107.746	111.567	103.35	118.3			
1/14/2007	3:00	132.807	130.702	127.274	107.743	111.558	103.341	118.268			
1/14/2007	3:30	132.809	130.707	127.282	107.749	111.562	103.343	118.264			
1/14/2007	4:00	132.811	130.706	127.282	107.748	111.564	103.345	118.262			
1/14/2007	4:30	132.807	130.702	127.282	107.749	111.56	103.343	118.26			
1/14/2007	5:00	132.809	130.707	127.275	107.741	111.562	103.343	118.258			
1/14/2007	5:30	132.793	130.689	127.265	107.732	111.544	103.327	118.258			
1/14/2007	6:00	132.797	130.694	127.27	107.737	111.552	103.334	118.256			
1/14/2007	6:30	132.797	130.694	127.26	107.727	111.548	103.331	118.255			
1/14/2007	7:00	132.793	130.689	127.263	107.73	111.546	103.329	118.255			
1/14/2007	7:30	132.811	130.709	127.286	107.753	111.565	103.348	118.251			
1/14/2007	8:00	132.795	130.689	127.265	107.734	111.546	103.329	118.253			
1/14/2007	8:30	132.793	130.687	127.252	107.717	111.541	103.327	118.251			
1/14/2007	9:00	132.786	130.681	127.254	107.722	111.537	103.319	118.247			
1/14/2007	9:30	134.454	132.265	128.48	108.24	111.834	103.735	118.598			
1/14/2007	10:00	134.718	132.525	128.656	108.375	112.013	103.928	118.856			
1/14/2007	10:30	134.807	132.611	128.75	108.461	112.091	104.01	118.936			
1/14/2007	11:00	134.886	132.691	128.809	108.513	112.163	104.084	119.002			
1/14/2007	11:30	134.892	132.697	128.817	108.518	112.163	104.086	119.034			
1/14/2007	12:00	134.892	132.699	128.818	108.52	112.169	104.091	119.072			
1/14/2007	12:30	134.876	132.68	128.795	108.492	112.142	104.067	119.096			
1/14/2007	13:00	134.89	132.697	128.815	108.516	112.165	104.086	119.111			
1/14/2007	13:30	134.857	132.663	128.776	108.472	112.126	104.051	119.139			
1/14/2007	14:00	134.898	132.706	128.836	108.535	112.171	104.091	119.152			
1/14/2007	14:30	134.917	132.721	128.843	108.542	112.198	104.114	119.167			
1/14/2007	15:00	134.942	132.747	128.861	108.561	112.221	104.14	119.183			
1/14/2007	15:30	134.962	132.768	128.896	108.603	112.243	104.164	119.198			
1/14/2007	16:00	134.985	132.79	128.033	108.372	112.266	104.185	119.216			
1/14/2007	16:30	133.189	131.081	127.61	108.042	111.887	103.678	118.72			
1/14/2007	17:00	133.051	130.945	127.499	107.948	111.775	103.56	118.611			
1/14/2007	17:30	132.993	130.887	127.441	107.894	111.725	103.508	118.559			
1/14/2007	18:00	132.958	130.855	127.418	107.877	111.699	103.48	118.533			
1/14/2007	18:30	132.948	130.844	127.409	107.872	111.691	103.473	118.514			
1/14/2007	19:00	132.939	130.836	127.4	107.863	111.685	103.466	118.503			
1/14/2007	19:30	132.925	130.821	127.395	107.858	111.672	103.452	118.493			
1/14/2007	20:00	132.921	130.814	127.376	107.842	111.668	103.447	118.486			
1/14/2007	20:30	132.906	130.799	127.374	107.837	111.655	103.437	118.48			
1/14/2007	21:00	132.923	130.816	127.383	107.851	111.674	103.454	118.478			
1/14/2007	21:30	132.908	130.803	127.37	107.835	111.659	103.44	118.472			
1/14/2007	22:00	132.915	130.81	127.376	107.844	111.666	103.447	118.465			
1/14/2007	22:30	132.908	130.803	127.371	107.837	111.661	103.442	118.459			
1/14/2007	23:00	132.898	130.793	127.367	107.834	111.651	103.433	118.456			
1/14/2007	23:30	132.906	130.801	127.369	107.839	111.659	103.44	118.448			
1/15/2007	0:00	132.904	130.801	127.371	107.841	111.661	103.442	118.442			
1/15/2007	0:30	132.906	130.801	127.372	107.841	111.662	103.442	118.426			
1/15/2007	1:00	132.9	130.795	127.367	107.836	111.653	103.435	118.424			
1/15/2007	1:30	132.89	130.784	127.358	107.825	111.643	103.426	118.414			
1/15/2007	2:00	132.879	130.775	127.348	107.816	111.636	103.416	118.407			
1/15/2007	2:30	132.871	130.767	127.341	107.808	111.628	103.409	118.403			
1/15/2007	3:00	132.873	130.769	127.341	107.809	111.628	103.412	118.394			
1/15/2007	3:30	132.879	130.778	127.351	107.82	111.638	103.419	118.401			
1/15/2007	4:00	132.894	130.786	127.36	107.83	111.647	103.43	118.394			
1/15/2007	4:30	132.894	130.793	127.367	107.834	111.651	103.435	118.388			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/15/2007	5:00	132.902	130.799	127.374	107.844	111.661	103.442	118.379			
1/15/2007	5:30	132.898	130.793	127.367	107.837	111.655	103.435	118.373			
1/15/2007	6:00	132.902	130.797	127.379	107.842	111.657	103.44	118.362			
1/15/2007	6:30	132.908	130.803	127.379	107.849	111.661	103.442	118.365			
1/15/2007	7:00	132.919	130.812	127.395	107.865	111.676	103.459	118.354			
1/15/2007	7:30	132.927	130.825	127.404	107.875	111.683	103.466	118.343			
1/15/2007	8:00	132.937	130.833	127.411	107.882	111.693	103.475	118.339			
1/15/2007	8:30	134.679	132.508	128.547	108.392	112.024	103.925	118.779			
1/15/2007	9:00	134.826	132.654	128.667	108.495	112.146	104.051	118.888			
1/15/2007	9:30	134.902	132.73	128.732	108.556	112.213	104.121	118.957			
1/15/2007	10:00	134.948	132.775	128.783	108.603	112.261	104.168	118.985			
1/15/2007	10:30	134.977	132.807	128.811	108.628	112.287	104.197	118.998			
1/15/2007	11:00	135.004	132.833	128.838	108.658	112.318	104.227	119.006			
1/15/2007	11:30	135.022	132.852	128.859	108.676	112.339	104.249	119.008			
1/15/2007	12:00	135.035	132.863	128.871	108.689	112.348	104.26	119.008			
1/15/2007	12:30	135.039	132.867	128.876	108.69	112.352	104.26	119.012			
1/15/2007	13:00	135.041	132.867	128.871	108.685	112.35	104.26	119.012			
1/15/2007	13:30	135.033	132.859	128.859	108.67	112.339	104.249	119.015			
1/15/2007	14:00	135.018	132.846	128.852	108.665	112.323	104.235	119.019			
1/15/2007	14:30	135.024	132.854	128.857	108.67	112.335	104.244	119.019			
1/15/2007	15:00	135.028	132.859	128.861	108.673	112.335	104.244	119.023			
1/15/2007	15:30	135.031	132.861	128.861	108.672	112.337	104.249	119.027			
1/15/2007	16:00	135.037	132.865	128.871	108.682	112.346	104.253	119.027			
1/15/2007	16:30	135.047	132.876	128.882	108.694	112.36	104.265	119.03			
1/15/2007	17:00	135.062	132.891	128.891	108.704	112.367	104.277	119.032			
1/15/2007	17:30	135.074	132.904	128.908	108.721	112.382	104.293	119.034			
1/15/2007	18:00	135.095	132.923	128.927	108.741	112.405	104.31	119.034			
1/15/2007	18:30	135.105	132.934	128.933	108.749	112.417	104.322	119.053			
1/15/2007	19:00	135.115	132.945	128.95	108.763	112.428	104.334	119.055			
1/15/2007	19:30	135.142	132.971	128.975	108.789	112.453	104.362	119.053			
1/15/2007	20:00	135.15	132.979	128.98	108.794	112.459	104.369	119.053			
1/15/2007	20:30	135.148	132.979	128.979	108.79	112.457	104.364	119.053			
1/15/2007	21:00	135.159	132.988	128.991	108.804	112.466	104.376	119.066			
1/15/2007	21:30	135.167	132.996	128.998	108.809	112.476	104.383	119.064			
1/15/2007	22:00	135.171	132.999	128.998	108.811	112.478	104.388	119.062			
1/15/2007	22:30	135.173	133.001	129.005	108.818	112.483	104.39	119.06			
1/15/2007	23:00	135.179	133.007	129.007	108.821	112.487	104.395	119.057			
1/15/2007	23:30	135.181	133.009	129.01	108.823	112.487	104.395	119.053			
1/16/2007	0:00	135.192	133.02	129.021	108.837	112.501	104.409	119.053			
1/16/2007	0:30	135.194	133.022	129.024	108.84	112.504	104.414	119.051			
1/16/2007	1:00	135.198	133.027	129.028	108.842	112.51	104.416	119.047			
1/16/2007	1:30	135.198	133.027	129.026	108.838	112.506	104.414	119.045			
1/16/2007	2:00	135.198	133.027	129.026	108.842	112.506	104.414	119.045			
1/16/2007	2:30	135.206	133.033	129.028	108.844	112.514	104.421	119.049			
1/16/2007	3:00	135.206	133.035	129.031	108.847	112.518	104.421	119.059			
1/16/2007	3:30	135.21	133.04	129.038	108.854	112.522	104.43	119.066			
1/16/2007	4:00	135.217	133.044	129.042	108.859	112.527	104.435	119.07			
1/16/2007	4:30	135.221	133.048	129.045	108.861	112.531	104.44	119.066			
1/16/2007	5:00	135.21	133.04	129.04	108.856	112.522	104.433	119.079			
1/16/2007	5:30	135.214	133.042	129.042	108.861	112.525	104.435	119.092			
1/16/2007	6:00	135.223	133.052	129.051	108.866	112.535	104.445	119.098			
1/16/2007	6:30	135.221	133.048	129.049	108.868	112.535	104.442	119.104			
1/16/2007	7:00	135.235	133.063	129.065	108.882	112.546	104.454	119.109			
1/16/2007	7:30	135.248	133.076	129.077	108.892	112.562	104.466	119.119			
1/16/2007	8:00	133.956	131.839	128.17	108.566	112.478	104.308	118.953			
1/16/2007	8:30	133.495	131.389	127.924	108.368	112.207	103.996	118.649			
1/16/2007	9:00	133.39	131.285	127.837	108.291	112.122	103.904	118.568			
1/16/2007	9:30	133.342	131.24	127.793	108.254	112.08	103.86	118.529			
1/16/2007	10:00	133.311	131.208	127.762	108.227	112.055	103.834	118.503			
1/16/2007	10:30	133.278	131.178	127.735	108.201	112.026	103.805	118.482			
1/16/2007	11:00	133.26	131.158	127.719	108.185	112.009	103.789	118.465			
1/16/2007	11:30	133.251	131.15	127.71	108.178	112.003	103.782	118.452			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/16/2007	12:00	133.237	131.137	127.693	108.161	111.988	103.77	118.45			
1/16/2007	12:30	133.208	131.107	127.666	108.134	111.963	103.739	118.437			
1/16/2007	13:00	133.183	131.081	127.64	108.108	111.939	103.716	118.424			
1/16/2007	13:30	133.16	131.059	127.619	108.087	111.914	103.69	118.409			
1/16/2007	14:00	133.138	131.038	127.596	108.066	111.891	103.669	118.395			
1/16/2007	14:30	133.117	131.019	127.577	108.046	111.874	103.647	118.384			
1/16/2007	15:00	133.096	130.995	127.559	108.029	111.851	103.629	118.375			
1/16/2007	15:30	133.084	130.986	127.545	108.015	111.84	103.619	118.365			
1/16/2007	16:00	133.069	130.969	127.529	107.999	111.824	103.605	118.36			
1/16/2007	16:30	133.053	130.954	127.52	107.989	111.809	103.591	118.35			
1/16/2007	17:00	133.047	130.95	127.508	107.98	111.803	103.581	118.347			
1/16/2007	17:30	133.036	130.937	127.499	107.968	111.79	103.57	118.343			
1/16/2007	18:00	133.028	130.93	127.49	107.959	111.784	103.562	118.337			
1/16/2007	18:30	133.022	130.922	127.488	107.958	111.779	103.558	118.337			
1/16/2007	19:00	133.02	130.922	127.485	107.954	111.779	103.558	118.333			
1/16/2007	19:30	133.024	130.926	127.49	107.961	111.781	103.56	118.33			
1/16/2007	20:00	133.02	130.922	127.485	107.956	111.779	103.558	118.322			
1/16/2007	20:30	133.014	130.917	127.481	107.951	111.771	103.551	118.32			
1/16/2007	21:00	133.003	130.904	127.469	107.939	111.76	103.539	118.33			
1/16/2007	21:30	132.995	130.898	127.462	107.93	111.75	103.529	118.324			
1/16/2007	22:00	132.991	130.892	127.455	107.923	111.744	103.525	118.32			
1/16/2007	22:30	132.985	130.885	127.451	107.922	111.741	103.52	118.317			
1/16/2007	23:00	132.983	130.885	127.448	107.918	111.739	103.518	118.313			
1/16/2007	23:30	132.979	130.879	127.441	107.911	111.733	103.51	118.311			
1/17/2007	0:00	132.966	130.868	127.432	107.901	111.722	103.499	118.305			
1/17/2007	0:30	132.958	130.859	127.425	107.894	111.714	103.492	118.303			
1/17/2007	1:00	132.958	130.861	127.425	107.894	111.714	103.494	118.302			
1/17/2007	1:30	132.952	130.855	127.418	107.889	111.708	103.489	118.298			
1/17/2007	2:00	132.943	130.849	127.411	107.882	111.701	103.477	118.313			
1/17/2007	2:30	132.935	130.84	127.402	107.873	111.697	103.475	118.313			
1/17/2007	3:00	132.925	130.829	127.392	107.863	111.683	103.463	118.311			
1/17/2007	3:30	132.919	130.823	127.386	107.858	111.678	103.459	118.307			
1/17/2007	4:00	132.915	130.816	127.381	107.853	111.672	103.452	118.307			
1/17/2007	4:30	132.906	130.808	127.371	107.842	111.664	103.442	118.305			
1/17/2007	5:00	132.9	130.801	127.367	107.835	111.659	103.435	118.307			
1/17/2007	5:30	132.881	130.784	127.346	107.815	111.64	103.416	118.309			
1/17/2007	6:00	132.867	130.769	127.332	107.801	111.623	103.402	118.307			
1/17/2007	6:30	132.853	130.756	127.323	107.792	111.609	103.385	118.311			
1/17/2007	7:00	132.855	130.756	127.321	107.791	111.611	103.388	118.307			
1/17/2007	7:30	132.846	130.75	127.314	107.784	111.605	103.383	118.309			
1/17/2007	8:00	134.369	132.189	128.436	108.213	111.792	103.685	118.64			
1/17/2007	8:30	134.729	132.54	128.677	108.402	112.036	103.947	118.905			
1/17/2007	9:00	134.832	132.641	128.762	108.475	112.12	104.036	118.998			
1/17/2007	9:30	134.878	132.687	128.804	108.513	112.16	104.077	119.051			
1/17/2007	10:00	134.907	132.717	128.836	108.544	112.19	104.105	119.087			
1/17/2007	10:30	134.942	132.747	128.864	108.57	112.219	104.138	119.113			
1/17/2007	11:00	134.954	132.762	128.88	108.585	112.232	104.15	119.137			
1/17/2007	11:30	134.966	132.777	128.894	108.599	112.247	104.168	119.166			
1/17/2007	12:00	134.977	132.786	128.901	108.606	112.259	104.178	119.183			
1/17/2007	12:30	134.975	132.783	128.896	108.601	112.257	104.173	119.211			
1/17/2007	13:00	134.173	132.002	127.913	108.282	112.243	104.166	119.198			
1/17/2007	13:30	133.154	131.053	127.582	108.02	111.859	103.65	118.722			
1/17/2007	14:00	133.024	130.926	127.471	107.922	111.752	103.537	118.632			
1/17/2007	14:30	132.952	130.853	127.399	107.858	111.687	103.468	118.593			
1/17/2007	15:00	132.9	130.806	127.356	107.816	111.647	103.423	118.574			
1/17/2007	15:30	132.869	130.771	127.328	107.787	111.613	103.39	118.568			
1/17/2007	16:00	132.846	130.747	127.305	107.768	111.594	103.369	118.566			
1/17/2007	16:30	132.813	130.715	127.275	107.743	111.563	103.343	118.566			
1/17/2007	17:00	132.799	130.704	127.268	107.73	111.554	103.329	118.565			
1/17/2007	17:30	132.797	130.7	127.256	107.727	111.55	103.329	118.568			
1/17/2007	18:00	132.795	130.7	127.267	107.734	111.552	103.327	118.57			
1/17/2007	18:30	132.811	130.715	127.27	107.737	111.567	103.343	118.572			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/17/2007	19:00	132.805	130.709	127.27	107.741	111.563	103.338	118.576			
1/17/2007	19:30	132.801	130.702	127.265	107.735	111.563	103.336	118.578			
1/17/2007	20:00	132.801	130.702	127.268	107.737	111.558	103.336	118.583			
1/17/2007	20:30	132.791	130.694	127.259	107.727	111.55	103.324	118.589			
1/17/2007	21:00	132.782	130.689	127.247	107.715	111.542	103.315	118.602			
1/17/2007	21:30	132.772	130.674	127.238	107.706	111.531	103.305	118.604			
1/17/2007	22:00	132.76	130.666	127.228	107.696	111.518	103.291	118.606			
1/17/2007	22:30	132.768	130.674	127.235	107.704	111.531	103.303	118.608			
1/17/2007	23:00	132.77	130.676	127.242	107.711	111.531	103.305	118.613			
1/17/2007	23:30	132.788	130.696	127.256	107.727	111.55	103.324	118.621			
1/18/2007	0:00	132.784	130.691	127.252	107.722	111.544	103.317	118.627			
1/18/2007	0:30	132.791	130.694	127.263	107.732	111.55	103.324	118.63			
1/18/2007	1:00	132.793	130.698	127.265	107.737	111.554	103.324	118.632			
1/18/2007	1:30	132.803	130.709	127.275	107.746	111.566	103.338	118.636			
1/18/2007	2:00	132.801	130.702	127.27	107.742	111.562	103.336	118.642			
1/18/2007	2:30	132.797	130.702	127.265	107.735	111.56	103.334	118.643			
1/18/2007	3:00	132.793	130.696	127.263	107.734	111.556	103.329	118.653			
1/18/2007	3:30	132.799	130.702	127.268	107.739	111.562	103.336	118.653			
1/18/2007	4:00	132.807	130.709	127.275	107.747	111.569	103.343	118.657			
1/18/2007	4:30	132.828	130.73	127.298	107.77	111.592	103.367	118.673			
1/18/2007	5:00	132.832	130.734	127.305	107.777	111.594	103.371	118.677			
1/18/2007	5:30	132.834	130.737	127.309	107.779	111.598	103.371	118.677			
1/18/2007	6:00	132.853	130.754	127.328	107.799	111.617	103.39	118.679			
1/18/2007	6:30	132.865	130.766	127.339	107.809	111.628	103.402	118.681			
1/18/2007	7:00	132.871	130.773	127.342	107.813	111.634	103.409	118.681			
1/18/2007	7:30	132.879	130.782	127.358	107.828	111.644	103.419	118.679			
1/18/2007	8:00	134.628	132.441	128.617	108.375	111.982	103.888	119.132			
1/18/2007	8:30	134.838	132.648	128.778	108.506	112.146	104.058	119.291			
1/18/2007	9:00	134.94	132.749	128.873	108.594	112.236	104.15	119.368			
1/18/2007	9:30	134.985	132.792	128.924	108.641	112.278	104.194	119.406			
1/18/2007	10:00	135.026	132.833	128.959	108.672	112.314	104.232	119.427			
1/18/2007	10:30	135.055	132.861	128.989	108.701	112.342	104.26	119.444			
1/18/2007	11:00	135.084	132.893	129.024	108.735	112.375	104.293	119.447			
1/18/2007	11:30	135.121	132.925	129.058	108.77	112.409	104.331	119.453			
1/18/2007	12:00	135.138	132.945	129.07	108.778	112.43	104.348	119.457			
1/18/2007	12:30	135.157	132.962	129.093	108.802	112.449	104.369	119.474			
1/18/2007	13:00	135.161	132.966	129.093	108.799	112.447	104.367	119.476			
1/18/2007	13:30	135.167	132.973	129.1	108.806	112.453	104.374	119.474			
1/18/2007	14:00	133.562	131.451	127.936	108.349	112.211	104.015	119.115			
1/18/2007	14:30	133.31	131.206	127.751	108.196	112.028	103.815	118.908			
1/18/2007	15:00	133.229	131.126	127.68	108.13	111.963	103.746	118.833			
1/18/2007	15:30	133.181	131.077	127.643	108.103	111.92	103.702	118.786			
1/18/2007	16:00	133.158	131.055	127.622	108.084	111.906	103.685	118.754			
1/18/2007	16:30	133.151	131.044	127.612	108.077	111.899	103.678	118.828			
1/18/2007	17:00	133.14	131.038	127.608	108.073	111.891	103.673	118.792			
1/18/2007	17:30	133.132	131.029	127.594	108.063	111.883	103.664	118.773			
1/18/2007	18:00	133.123	131.021	127.585	108.054	111.88	103.657	118.756			
1/18/2007	18:30	133.109	131.006	127.569	108.039	111.861	103.64	118.743			
1/18/2007	19:00	133.098	130.997	127.562	108.03	111.853	103.633	118.728			
1/18/2007	19:30	133.099	130.997	127.564	108.034	111.855	103.633	118.715			
1/18/2007	20:00	133.091	130.988	127.557	108.025	111.843	103.624	118.702			
1/18/2007	20:30	133.09	130.988	127.559	108.028	111.845	103.624	118.688			
1/18/2007	21:00	133.095	130.992	127.562	108.03	111.851	103.628	118.679			
1/18/2007	21:30	133.078	130.976	127.536	108.003	111.83	103.61	118.668			
1/18/2007	22:00	133.056	130.954	127.525	107.992	111.809	103.588	118.653			
1/18/2007	22:30	133.047	130.945	127.515	107.984	111.802	103.581	118.642			
1/18/2007	23:00	133.059	130.958	127.529	107.996	111.813	103.595	118.627			
1/18/2007	23:30	133.041	130.941	127.503	107.972	111.796	103.574	118.617			
1/19/2007	0:00	133.014	130.913	127.485	107.951	111.767	103.546	118.606			
1/19/2007	0:30	133.014	130.913	127.483	107.951	111.769	103.548	118.593			
1/19/2007	1:00	133.01	130.907	127.478	107.944	111.763	103.543	118.583			
1/19/2007	1:30	132.994	130.892	127.457	107.922	111.744	103.525	118.574			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/19/2007	2:00	132.977	130.877	127.451	107.918	111.731	103.511	118.565			
1/19/2007	2:30	132.965	130.861	127.432	107.897	111.718	103.496	118.557			
1/19/2007	3:00	132.967	130.868	127.437	107.904	111.725	103.501	118.546			
1/19/2007	3:30	132.954	130.853	127.427	107.897	111.71	103.489	118.54			
1/19/2007	4:00	132.956	130.855	127.43	107.899	111.712	103.492	118.533			
1/19/2007	4:30	132.946	130.844	127.409	107.875	111.701	103.48	118.525			
1/19/2007	5:00	132.929	130.829	127.4	107.868	111.684	103.463	118.519			
1/19/2007	5:30	132.911	130.812	127.386	107.853	111.668	103.447	118.514			
1/19/2007	6:00	132.904	130.803	127.367	107.834	111.659	103.44	118.506			
1/19/2007	6:30	132.89	130.79	127.353	107.82	111.645	103.426	118.503			
1/19/2007	7:00	132.865	130.762	127.33	107.794	111.617	103.397	118.504			
1/19/2007	7:30	132.853	130.754	127.326	107.794	111.607	103.388	118.501			
1/19/2007	8:00	134.456	132.293	128.376	108.242	111.855	103.744	118.82			
1/19/2007	8:30	134.739	132.57	128.582	108.409	112.053	103.954	119.015			
1/19/2007	9:00	134.832	132.663	128.663	108.48	112.137	104.041	119.087			
1/19/2007	9:30	134.884	132.712	128.716	108.532	112.184	104.093	119.126			
1/19/2007	10:00	134.913	132.74	128.737	108.549	112.209	104.117	119.152			
1/19/2007	10:30	133.334	131.225	127.714	108.134	111.998	103.798	118.852			
1/19/2007	11:00	133.109	131.008	127.554	108.004	111.832	103.619	118.683			
1/19/2007	11:30	133.039	130.936	127.501	107.956	111.775	103.56	118.621			
1/19/2007	12:00	132.999	130.898	127.46	107.916	111.742	103.527	118.587			
1/19/2007	12:30	132.96	130.859	127.423	107.882	111.706	103.489	118.572			
1/19/2007	13:00	132.933	130.833	127.402	107.865	111.682	103.466	118.559			
1/19/2007	13:30	132.925	130.823	127.39	107.854	111.674	103.454	118.551			
1/19/2007	14:00	132.896	130.795	127.363	107.823	111.647	103.426	118.548			
1/19/2007	14:30	132.874	130.771	127.337	107.797	111.622	103.404	118.544			
1/19/2007	15:00	132.869	130.769	127.342	107.808	111.626	103.404	118.538			
1/19/2007	15:30	132.88	130.778	127.351	107.818	111.636	103.411	118.538			
1/19/2007	16:00	132.878	130.778	127.344	107.811	111.632	103.411	118.54			
1/19/2007	16:30	132.863	130.762	127.328	107.792	111.617	103.397	118.54			
1/19/2007	17:00	132.85	130.752	127.321	107.787	111.607	103.385	118.542			
1/19/2007	17:30	132.843	130.743	127.314	107.782	111.598	103.376	118.542			
1/19/2007	18:00	132.855	130.754	127.323	107.789	111.613	103.39	118.54			
1/19/2007	18:30	132.853	130.752	127.323	107.792	111.607	103.385	118.544			
1/19/2007	19:00	132.844	130.743	127.314	107.784	111.602	103.378	118.544			
1/19/2007	19:30	132.855	130.754	127.333	107.801	111.611	103.39	118.544			
1/19/2007	20:00	132.867	130.765	127.334	107.801	111.624	103.4	118.546			
1/19/2007	20:30	132.874	130.773	127.346	107.816	111.632	103.409	118.546			
1/19/2007	21:00	132.886	130.786	127.356	107.823	111.642	103.419	118.546			
1/19/2007	21:30	132.884	130.782	127.356	107.825	111.64	103.419	118.544			
1/19/2007	22:00	132.884	130.784	127.36	107.828	111.64	103.421	118.544			
1/19/2007	22:30	132.888	130.786	127.358	107.823	111.643	103.423	118.54			
1/19/2007	23:00	132.875	130.773	127.342	107.808	111.63	103.409	118.538			
1/19/2007	23:30	132.867	130.767	127.335	107.799	111.622	103.402	118.536			
1/20/2007	0:00	132.84	130.741	127.312	107.777	111.596	103.374	118.534			
1/20/2007	0:30	132.832	130.73	127.305	107.77	111.584	103.367	118.534			
1/20/2007	1:00	132.85	130.75	127.319	107.787	111.605	103.388	118.533			
1/20/2007	1:30	132.85	130.75	127.316	107.784	111.605	103.385	118.533			
1/20/2007	2:00	132.826	130.724	127.289	107.756	111.577	103.36	118.536			
1/20/2007	2:30	132.805	130.704	127.275	107.744	111.56	103.338	118.536			
1/20/2007	3:00	132.805	130.704	127.275	107.744	111.562	103.341	118.536			
1/20/2007	3:30	132.799	130.698	127.272	107.737	111.556	103.334	118.538			
1/20/2007	4:00	132.793	130.691	127.27	107.739	111.552	103.331	118.538			
1/20/2007	4:30	132.807	130.704	127.279	107.747	111.565	103.343	118.54			
1/20/2007	5:00	132.793	130.694	127.263	107.728	111.552	103.331	118.544			
1/20/2007	5:30	132.786	130.687	127.263	107.73	111.542	103.322	118.546			
1/20/2007	6:00	132.788	130.687	127.259	107.728	111.546	103.324	118.544			
1/20/2007	6:30	132.784	130.683	127.249	107.718	111.541	103.319	118.548			
1/20/2007	7:00	132.786	130.685	127.256	107.727	111.541	103.322	118.549			
1/20/2007	7:30	132.778	130.679	127.249	107.716	111.539	103.317	118.551			
1/20/2007	8:00	132.772	130.67	127.247	107.716	111.531	103.308	118.553			
1/20/2007	8:30	132.772	130.674	127.249	107.716	111.531	103.31	118.555			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/20/2007	9:00	132.786	130.685	128.061	107.972	111.545	103.322	118.557			
1/20/2007	9:30	134.623	132.435	128.579	108.309	111.933	103.843	119.017			
1/20/2007	10:00	134.76	132.568	128.695	108.408	112.047	103.959	119.106			
1/20/2007	10:30	134.818	132.626	128.748	108.451	112.095	104.013	119.151			
1/20/2007	11:00	134.847	132.654	128.774	108.475	112.12	104.039	119.177			
1/20/2007	11:30	134.89	132.697	128.813	108.511	112.16	104.077	119.269			
1/20/2007	12:00	134.904	132.712	128.832	108.528	112.173	104.093	119.293			
1/20/2007	12:30	134.919	132.73	128.848	108.544	112.194	104.112	119.31			
1/20/2007	13:00	134.927	132.736	128.852	108.549	112.198	104.114	119.331			
1/20/2007	13:30	134.927	132.734	128.85	108.547	112.198	104.114	119.348			
1/20/2007	14:00	134.915	132.723	128.839	108.539	112.188	104.105	119.363			
1/20/2007	14:30	134.919	132.73	128.847	108.547	112.196	104.114	119.376			
1/20/2007	15:00	134.917	132.727	128.845	108.542	112.196	104.112	119.387			
1/20/2007	15:30	134.915	132.723	128.846	108.547	112.196	104.114	119.391			
1/20/2007	16:00	133.253	131.146	127.645	108.065	111.923	103.718	119.021			
1/20/2007	16:30	133.043	130.939	127.48	107.925	111.763	103.548	118.865			
1/20/2007	17:00	132.954	130.851	127.407	107.859	111.689	103.471	118.807			
1/20/2007	17:30	132.908	130.806	127.367	107.827	111.649	103.43	118.766			
1/20/2007	18:00	132.884	130.784	127.342	107.804	111.634	103.412	118.752			
1/20/2007	18:30	132.869	130.769	127.333	107.797	111.621	103.397	118.745			
1/20/2007	19:00	132.859	130.76	127.318	107.787	111.613	103.393	118.739			
1/20/2007	19:30	132.846	130.745	127.304	107.772	111.602	103.378	118.735			
1/20/2007	20:00	132.819	130.719	127.282	107.749	111.575	103.35	118.728			
1/20/2007	20:30	132.801	130.7	127.261	107.728	111.554	103.334	118.726			
1/20/2007	21:00	132.788	130.689	127.249	107.715	111.548	103.324	118.724			
1/20/2007	21:30	132.762	130.663	127.223	107.694	111.52	103.298	118.724			
1/20/2007	22:00	132.745	130.646	127.21	107.679	111.504	103.282	118.726			
1/20/2007	22:30	132.743	130.644	127.207	107.675	111.502	103.279	118.73			
1/20/2007	23:00	132.745	130.644	127.203	107.673	111.504	103.279	118.732			
1/20/2007	23:30	132.731	130.631	127.191	107.66	111.487	103.265	118.735			
1/21/2007	0:00	132.718	130.618	127.184	107.653	111.478	103.256	118.741			
1/21/2007	0:30	132.714	130.616	127.184	107.653	111.472	103.249	118.747			
1/21/2007	1:00	132.712	130.612	127.178	107.647	111.47	103.249	118.745			
1/21/2007	1:30	132.7	130.599	127.161	107.63	111.457	103.232	118.749			
1/21/2007	2:00	132.686	130.586	127.152	107.62	111.447	103.22	118.754			
1/21/2007	2:30	132.677	130.58	127.145	107.615	111.44	103.213	118.76			
1/21/2007	3:00	132.677	130.577	127.145	107.613	111.438	103.213	118.766			
1/21/2007	3:30	132.684	130.584	127.152	107.622	111.446	103.218	118.773			
1/21/2007	4:00	132.688	130.588	127.157	107.627	111.451	103.225	118.786			
1/21/2007	4:30	132.69	130.59	127.157	107.627	111.451	103.227	118.794			
1/21/2007	5:00	132.692	130.592	127.157	107.629	111.453	103.23	118.797			
1/21/2007	5:30	132.69	130.592	127.161	107.632	111.453	103.23	118.807			
1/21/2007	6:00	132.708	130.608	127.178	107.649	111.47	103.246	118.814			
1/21/2007	6:30	132.717	130.618	127.189	107.662	111.482	103.256	118.82			
1/21/2007	7:00	132.733	130.633	127.205	107.679	111.499	103.275	118.829			
1/21/2007	7:30	132.75	130.651	127.221	107.696	111.516	103.291	118.833			
1/21/2007	8:00	132.766	130.666	127.238	107.713	111.533	103.308	118.837			
1/21/2007	8:30	132.78	130.683	127.252	107.727	111.548	103.324	118.841			
1/21/2007	9:00	132.797	130.698	127.265	107.741	111.563	103.338	118.843			
1/21/2007	9:30	132.801	130.704	127.279	107.754	111.567	103.343	118.844			
1/21/2007	10:00	134.373	132.213	128.313	108.189	111.788	103.671	119.132			
1/21/2007	10:30	134.714	132.547	128.552	108.38	112.026	103.926	119.399			
1/21/2007	11:00	134.82	132.648	128.642	108.458	112.116	104.02	119.476			
1/21/2007	11:30	134.88	132.708	128.7	108.513	112.171	104.072	119.517			
1/21/2007	12:00	134.921	132.749	128.737	108.545	112.209	104.114	119.539			
1/21/2007	12:30	134.944	132.773	128.76	108.568	112.234	104.138	119.556			
1/21/2007	13:00	134.954	132.783	128.774	108.582	112.245	104.15	119.569			
1/21/2007	13:30	133.638	131.52	127.86	108.258	112.165	103.996	119.404			
1/21/2007	14:00	133.177	131.072	127.615	108.061	111.899	103.688	119.107			
1/21/2007	14:30	133.084	130.98	127.541	107.997	111.822	103.605	119.013			
1/21/2007	15:00	133.047	130.943	127.504	107.965	111.792	103.574	118.968			
1/21/2007	15:30	133.022	130.92	127.487	107.954	111.773	103.553	118.938			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/21/2007	16:00	133.022	130.917	127.488	107.954	111.779	103.558	118.918			
1/21/2007	16:30	133.02	130.915	127.49	107.958	111.777	103.555	118.901			
1/21/2007	17:00	133.018	130.915	127.485	107.954	111.779	103.555	118.886			
1/21/2007	17:30	133.012	130.911	127.483	107.953	111.771	103.551	118.873			
1/21/2007	18:00	133.01	130.909	127.478	107.949	111.773	103.551	118.859			
1/21/2007	18:30	133.006	130.902	127.474	107.946	111.766	103.546	118.846			
1/21/2007	19:00	133	130.898	127.469	107.939	111.762	103.539	118.831			
1/21/2007	19:30	133	130.898	127.469	107.939	111.762	103.541	118.818			
1/21/2007	20:00	133	130.898	127.471	107.944	111.76	103.539	118.809			
1/21/2007	20:30	133.014	130.911	127.478	107.947	111.765	103.546	118.799			
1/21/2007	21:00	133.008	130.906	127.478	107.947	111.769	103.551	118.784			
1/21/2007	21:30	133.006	130.902	127.474	107.944	111.765	103.548	118.771			
1/21/2007	22:00	133.002	130.898	127.469	107.94	111.76	103.541	118.762			
1/21/2007	22:30	133.004	130.9	127.474	107.944	111.766	103.543	118.75			
1/21/2007	23:00	133.004	130.9	127.474	107.944	111.762	103.543	118.739			
1/21/2007	23:30	132.998	130.896	127.467	107.937	111.756	103.536	118.73			
1/22/2007	0:00	132.996	130.892	127.467	107.937	111.754	103.534	118.717			
1/22/2007	0:30	132.994	130.891	127.46	107.928	111.75	103.532	118.707			
1/22/2007	1:00	132.981	130.881	127.453	107.922	111.739	103.52	118.694			
1/22/2007	1:30	132.971	130.865	127.439	107.905	111.723	103.506	118.683			
1/22/2007	2:00	132.958	130.855	127.427	107.896	111.712	103.494	118.672			
1/22/2007	2:30	132.95	130.849	127.42	107.887	111.706	103.489	118.66			
1/22/2007	3:00	132.948	130.844	127.42	107.887	111.703	103.485	118.649			
1/22/2007	3:30	132.948	130.846	127.42	107.889	111.704	103.487	118.638			
1/22/2007	4:00	132.95	130.846	127.42	107.889	111.706	103.489	118.679			
1/22/2007	4:30	132.938	130.836	127.409	107.877	111.695	103.477	118.672			
1/22/2007	5:00	132.925	130.825	127.397	107.865	111.684	103.463	118.66			
1/22/2007	5:30	132.919	130.816	127.393	107.861	111.676	103.459	118.651			
1/22/2007	6:00	132.913	130.81	127.386	107.853	111.67	103.449	118.642			
1/22/2007	6:30	132.907	130.803	127.379	107.846	111.666	103.447	118.632			
1/22/2007	7:00	132.898	130.797	127.37	107.839	111.657	103.437	118.623			
1/22/2007	7:30	132.89	130.788	127.363	107.83	111.649	103.43	118.617			
1/22/2007	8:00	134.409	132.226	128.485	108.259	111.83	103.723	118.846			
1/22/2007	8:30	134.773	132.581	128.723	108.447	112.072	103.987	119.152			
1/22/2007	9:00	134.88	132.687	128.811	108.52	112.16	104.079	119.237			
1/22/2007	9:30	134.921	132.727	128.852	108.558	112.196	104.117	119.276			
1/22/2007	10:00	134.953	132.76	128.883	108.585	112.224	104.145	119.303			
1/22/2007	10:30	134.983	132.79	128.915	108.614	112.257	104.178	119.323			
1/22/2007	11:00	135.01	132.816	128.943	108.642	112.283	104.204	119.335			
1/22/2007	11:30	135.031	132.839	128.964	108.661	112.306	104.225	119.348			
1/22/2007	12:00	135.048	132.852	128.975	108.675	112.324	104.242	119.359			
1/22/2007	12:30	135.043	132.85	128.97	108.67	112.32	104.239	119.368			
1/22/2007	13:00	135.054	132.859	128.982	108.68	112.325	104.246	119.378			
1/22/2007	13:30	135.052	132.859	128.98	108.676	112.327	104.249	119.385			
1/22/2007	14:00	135.046	132.85	128.968	108.668	112.322	104.239	119.393			
1/22/2007	14:30	133.868	131.735	127.943	108.315	112.255	104.126	119.288			
1/22/2007	15:00	133.208	131.1	127.636	108.07	111.91	103.702	119.009			
1/22/2007	15:30	133.086	130.984	127.538	107.986	111.815	103.598	118.901			
1/22/2007	16:00	133.033	130.93	127.49	107.942	111.767	103.551	118.856			
1/22/2007	16:30	132.996	130.891	127.457	107.916	111.739	103.515	118.829			
1/22/2007	17:00	132.971	130.868	127.43	107.891	111.716	103.494	118.812			
1/22/2007	17:30	132.957	130.851	127.416	107.882	111.706	103.482	118.801			
1/22/2007	18:00	132.936	130.833	127.402	107.868	111.687	103.463	118.792			
1/22/2007	18:30	132.924	130.823	127.393	107.858	111.678	103.452	118.784			
1/22/2007	19:00	132.922	130.818	127.388	107.854	111.676	103.452	118.779			
1/22/2007	19:30	132.915	130.814	127.381	107.847	111.672	103.447	118.775			
1/22/2007	20:00	132.913	130.812	127.381	107.849	111.672	103.447	118.777			
1/22/2007	20:30	132.911	130.812	127.374	107.842	111.668	103.444	118.769			
1/22/2007	21:00	132.895	130.793	127.358	107.825	111.653	103.428	118.766			
1/22/2007	21:30	132.876	130.775	127.342	107.809	111.634	103.407	118.76			
1/22/2007	22:00	132.87	130.771	127.337	107.806	111.63	103.402	118.758			
1/22/2007	22:30	132.864	130.762	127.328	107.796	111.622	103.395	118.756			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/22/2007	23:00	132.858	130.758	127.323	107.792	111.617	103.393	118.752			
1/22/2007	23:30	132.841	130.743	127.305	107.772	111.6	103.374	118.752			
1/23/2007	0:00	132.833	130.734	127.302	107.77	111.59	103.364	118.747			
1/23/2007	0:30	132.837	130.737	127.302	107.772	111.594	103.369	118.747			
1/23/2007	1:00	132.837	130.737	127.302	107.772	111.596	103.367	118.749			
1/23/2007	1:30	132.829	130.73	127.296	107.765	111.586	103.36	118.749			
1/23/2007	2:00	132.823	130.722	127.291	107.758	111.579	103.352	118.75			
1/23/2007	2:30	132.806	130.707	127.277	107.746	111.563	103.341	118.75			
1/23/2007	3:00	132.812	130.711	127.279	107.746	111.569	103.345	118.75			
1/23/2007	3:30	132.804	130.702	127.27	107.737	111.56	103.336	118.75			
1/23/2007	4:00	132.802	130.702	127.27	107.737	111.56	103.336	118.75			
1/23/2007	4:30	132.802	130.702	127.275	107.742	111.56	103.334	118.75			
1/23/2007	5:00	132.806	130.704	127.275	107.744	111.563	103.338	118.752			
1/23/2007	5:30	132.804	130.704	127.272	107.742	111.562	103.338	118.754			
1/23/2007	6:00	132.81	130.708	127.277	107.747	111.569	103.343	118.754			
1/23/2007	6:30	132.808	130.707	127.277	107.746	111.569	103.343	118.754			
1/23/2007	7:00	132.806	130.704	127.282	107.749	111.563	103.338	118.754			
1/23/2007	7:30	132.802	130.702	127.272	107.743	111.56	103.338	118.754			
1/23/2007	8:00	134.29	132.129	128.269	108.147	111.735	103.612	119.019			
1/23/2007	8:30	134.682	132.51	128.517	108.342	111.982	103.883	119.263			
1/23/2007	9:00	134.793	132.622	128.612	108.42	112.076	103.98	119.348			
1/23/2007	9:30	134.833	132.663	128.649	108.454	112.114	104.02	119.393			
1/23/2007	10:00	134.86	132.689	128.679	108.483	112.142	104.046	119.417			
1/23/2007	10:30	134.888	132.717	128.709	108.511	112.173	104.074	119.438			
1/23/2007	11:00	134.915	132.745	128.737	108.54	112.2	104.102	119.453			
1/23/2007	11:30	134.942	132.773	128.767	108.571	112.23	104.135	119.466			
1/23/2007	12:00	134.967	132.796	128.795	108.604	112.259	104.166	119.474			
1/23/2007	12:30	134.983	132.811	128.804	108.609	112.276	104.185	119.481			
1/23/2007	13:00	134.965	132.796	128.788	108.595	112.262	104.168	119.491			
1/23/2007	13:30	134.975	132.805	128.799	108.608	112.272	104.178	119.492			
1/23/2007	14:00	134.975	132.805	128.804	108.614	112.282	104.18	119.498			
1/23/2007	14:30	134.969	132.798	128.804	108.613	112.274	104.178	119.502			
1/23/2007	15:00	134.975	132.805	128.804	108.614	112.282	104.185	119.506			
1/23/2007	15:30	134.981	132.811	128.175	108.452	112.291	104.194	119.511			
1/23/2007	16:00	133.267	131.163	127.698	108.134	111.975	103.758	119.122			
1/23/2007	16:30	133.155	131.053	127.612	108.063	111.885	103.666	119.019			
1/23/2007	17:00	133.103	131.001	127.564	108.02	111.847	103.624	118.97			
1/23/2007	17:30	133.073	130.971	127.534	107.996	111.819	103.595	118.936			
1/23/2007	18:00	133.054	130.95	127.515	107.982	111.804	103.581	118.918			
1/23/2007	18:30	133.041	130.939	127.504	107.972	111.796	103.572	118.901			
1/23/2007	19:00	133.033	130.93	127.499	107.965	111.788	103.565	118.886			
1/23/2007	19:30	133.031	130.928	127.494	107.961	111.786	103.562	118.873			
1/23/2007	20:00	133.033	130.932	127.501	107.968	111.79	103.567	118.859			
1/23/2007	20:30	133.035	130.932	127.499	107.968	111.796	103.569	118.848			
1/23/2007	21:00	133.035	130.935	127.504	107.973	111.796	103.569	118.837			
1/23/2007	21:30	133.029	130.926	127.497	107.965	111.786	103.56	118.827			
1/23/2007	22:00	133.017	130.915	127.483	107.953	111.777	103.551	118.814			
1/23/2007	22:30	132.998	130.898	127.464	107.932	111.76	103.534	118.805			
1/23/2007	23:00	132.994	130.892	127.462	107.932	111.754	103.527	118.792			
1/23/2007	23:30	132.982	130.879	127.448	107.918	111.739	103.515	118.784			
1/24/2007	0:00	132.977	130.877	127.441	107.913	111.737	103.513	118.775			
1/24/2007	0:30	132.971	130.868	127.437	107.904	111.727	103.503	118.766			
1/24/2007	1:00	132.965	130.864	127.437	107.908	111.725	103.499	118.756			
1/24/2007	1:30	132.963	130.861	127.432	107.899	111.722	103.496	118.749			
1/24/2007	2:00	132.953	130.853	127.418	107.887	111.712	103.489	118.739			
1/24/2007	2:30	132.951	130.85	127.418	107.889	111.706	103.485	118.732			
1/24/2007	3:00	132.94	130.838	127.404	107.872	111.699	103.473	118.726			
1/24/2007	3:30	132.926	130.825	127.393	107.859	111.683	103.461	118.717			
1/24/2007	4:00	132.913	130.814	127.379	107.846	111.672	103.449	118.711			
1/24/2007	4:30	132.901	130.801	127.365	107.834	111.655	103.433	118.707			
1/24/2007	5:00	132.889	130.788	127.363	107.83	111.647	103.421	118.702			
1/24/2007	5:30	132.893	130.793	127.363	107.828	111.653	103.426	118.696			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/24/2007	6:00	132.893	130.79	127.363	107.83	111.651	103.426	118.692			
1/24/2007	6:30	132.897	130.797	127.371	107.839	111.659	103.433	118.688			
1/24/2007	7:00	132.906	130.803	127.376	107.847	111.664	103.44	118.685			
1/24/2007	7:30	132.915	130.814	127.386	107.854	111.672	103.447	118.679			
1/24/2007	8:00	134.525	132.362	128.431	108.301	111.918	103.803	118.998			
1/24/2007	8:30	134.777	132.607	128.619	108.452	112.102	104.001	119.156			
1/24/2007	9:00	134.866	132.695	128.7	108.527	112.179	104.081	119.213			
1/24/2007	9:30	134.92	132.747	128.751	108.571	112.234	104.138	119.239			
1/24/2007	10:00	134.949	132.777	128.783	108.602	112.262	104.168	119.252			
1/24/2007	10:30	133.385	131.275	127.77	108.194	112.055	103.85	118.976			
1/24/2007	11:00	133.178	131.072	127.622	108.071	111.904	103.69	118.812			
1/24/2007	11:30	133.112	131.007	127.573	108.032	111.853	103.635	118.747			
1/24/2007	12:00	133.077	130.973	127.538	108.001	111.822	103.602	118.711			
1/24/2007	12:30	133.056	130.954	127.518	107.98	111.803	103.584	118.687			
1/24/2007	13:00	133.032	130.928	127.492	107.958	111.784	103.56	118.668			
1/24/2007	13:30	133.013	130.911	127.478	107.944	111.767	103.541	118.653			
1/24/2007	14:00	132.997	130.892	127.462	107.928	111.748	103.527	118.64			
1/24/2007	14:30	132.984	130.881	127.451	107.916	111.737	103.515	118.625			
1/24/2007	15:00	132.974	130.868	127.437	107.903	111.726	103.506	118.615			
1/24/2007	15:30	132.957	130.855	127.423	107.889	111.712	103.489	118.606			
1/24/2007	16:00	132.949	130.844	127.416	107.884	111.701	103.48	118.596			
1/24/2007	16:30	132.949	130.844	127.418	107.887	111.702	103.482	118.587			
1/24/2007	17:00	132.939	130.838	127.409	107.875	111.693	103.47	118.58			
1/24/2007	17:30	132.93	130.827	127.4	107.868	111.685	103.463	118.572			
1/24/2007	18:00	132.93	130.827	127.397	107.865	111.683	103.461	118.565			
1/24/2007	18:30	132.922	130.818	127.386	107.854	111.676	103.454	118.555			
1/24/2007	19:00	132.906	130.803	127.374	107.844	111.659	103.437	118.551			
1/24/2007	19:30	132.908	130.805	127.376	107.844	111.661	103.44	118.542			
1/24/2007	20:00	132.91	130.808	127.376	107.846	111.664	103.44	118.536			
1/24/2007	20:30	132.912	130.81	127.381	107.849	111.666	103.444	118.531			
1/24/2007	21:00	132.91	130.808	127.376	107.846	111.664	103.442	118.523			
1/24/2007	21:30	132.91	130.81	127.379	107.846	111.666	103.444	118.518			
1/24/2007	22:00	132.914	130.81	127.383	107.853	111.668	103.447	118.512			
1/24/2007	22:30	132.912	130.81	127.383	107.851	111.67	103.447	118.504			
1/24/2007	23:00	132.912	130.81	127.381	107.849	111.666	103.444	118.497			
1/24/2007	23:30	132.908	130.806	127.379	107.846	111.662	103.442	118.491			
1/25/2007	0:00	132.902	130.799	127.37	107.837	111.655	103.433	118.486			
1/25/2007	0:30	132.898	130.793	127.365	107.834	111.655	103.43	118.478			
1/25/2007	1:00	132.892	130.786	127.36	107.827	111.643	103.421	118.472			
1/25/2007	1:30	132.879	130.775	127.346	107.813	111.634	103.409	118.469			
1/25/2007	2:00	132.866	130.765	127.335	107.801	111.621	103.397	118.463			
1/25/2007	2:30	132.858	130.754	127.326	107.792	111.609	103.39	118.459			
1/25/2007	3:00	132.842	130.739	127.312	107.777	111.596	103.374	118.456			
1/25/2007	3:30	132.842	130.741	127.314	107.78	111.598	103.376	118.452			
1/25/2007	4:00	132.825	130.724	127.293	107.758	111.577	103.357	118.452			
1/25/2007	4:30	132.821	130.719	127.293	107.76	111.575	103.355	118.448			
1/25/2007	5:00	132.821	130.717	127.289	107.756	111.575	103.352	118.45			
1/25/2007	5:30	132.817	130.713	127.286	107.751	111.573	103.348	118.454			
1/25/2007	6:00	132.811	130.711	127.284	107.751	111.566	103.343	118.454			
1/25/2007	6:30	132.815	130.713	127.284	107.754	111.571	103.348	118.454			
1/25/2007	7:00	132.811	130.709	127.282	107.751	111.565	103.345	118.454			
1/25/2007	7:30	132.817	130.715	127.289	107.758	111.571	103.352	118.452			
1/25/2007	8:00	134.474	132.284	128.485	108.251	111.84	103.741	118.794			
1/25/2007	8:30	134.742	132.549	128.684	108.408	112.038	103.954	118.963			
1/25/2007	9:00	134.837	132.643	128.772	108.483	112.12	104.036	119.021			
1/25/2007	9:30	134.897	132.702	128.827	108.535	112.179	104.095	119.051			
1/25/2007	10:00	134.936	132.74	128.864	108.571	112.213	104.133	119.068			
1/25/2007	10:30	134.955	132.762	128.885	108.589	112.232	104.147	119.136			
1/25/2007	11:00	134.97	132.777	128.899	108.602	112.249	104.166	119.151			
1/25/2007	11:30	134.986	132.792	128.915	108.618	112.266	104.183	119.162			
1/25/2007	12:00	134.998	132.807	128.927	108.632	112.282	104.197	119.173			
1/25/2007	12:30	135.005	132.811	128.929	108.633	112.285	104.199	119.184			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/25/2007	13:00	134.998	132.807	128.927	108.628	112.28	104.197	119.218			
1/25/2007	13:30	134.996	132.803	128.924	108.626	112.28	104.194	119.224			
1/25/2007	14:00	133.559	131.443	127.837	108.225	112.129	103.947	118.98			
1/25/2007	14:30	133.149	131.042	127.582	108.016	111.857	103.643	118.702			
1/25/2007	15:00	133.04	130.935	127.49	107.94	111.765	103.548	118.617			
1/25/2007	15:30	132.984	130.881	127.441	107.897	111.72	103.499	118.58			
1/25/2007	16:00	132.951	130.846	127.411	107.872	111.693	103.473	118.557			
1/25/2007	16:30	132.93	130.829	127.393	107.853	111.676	103.454	118.544			
1/25/2007	17:00	132.909	130.814	127.372	107.835	111.657	103.435	118.536			
1/25/2007	17:30	132.895	130.797	127.358	107.823	111.645	103.421	118.531			
1/25/2007	18:00	132.885	130.78	127.349	107.813	111.638	103.414	118.527			
1/25/2007	18:30	132.875	130.773	127.342	107.806	111.632	103.402	118.523			
1/25/2007	19:00	134.781	132.583	128.7	108.396	112.015	103.925	119.038			
1/25/2007	19:30	134.868	132.671	128.79	108.492	112.131	104.043	119.175			
1/25/2007	20:00	134.647	132.433	128.834	108.537	112.184	104.1	119.235			
1/25/2007	20:30	134.959	132.764	128.876	108.571	112.219	104.135	119.416			
1/25/2007	21:00	134.978	132.783	128.894	108.585	112.234	104.152	119.423			
1/25/2007	21:30	134.991	132.794	128.908	108.599	112.245	104.164	119.444			
1/25/2007	22:00	135.003	132.807	128.917	108.608	112.259	104.178	119.462			
1/25/2007	22:30	135.011	132.816	128.927	108.62	112.268	104.185	119.479			
1/25/2007	23:00	135.018	132.824	128.933	108.626	112.278	104.192	119.496			
1/25/2007	23:30	135.022	132.826	128.938	108.633	112.283	104.199	119.511			
1/26/2007	0:00	135.029	132.835	128.945	108.639	112.291	104.209	119.526			
1/26/2007	0:30	135.032	132.839	128.95	108.647	112.299	104.216	119.539			
1/26/2007	1:00	135.034	132.841	128.952	108.647	112.302	104.218	119.554			
1/26/2007	1:30	135.029	132.837	128.95	108.647	112.301	104.213	119.568			
1/26/2007	2:00	135.027	132.837	128.947	108.645	112.302	104.216	119.581			
1/26/2007	2:30	135.025	132.833	128.947	108.647	112.302	104.216	119.594			
1/26/2007	3:00	135.029	132.837	128.015	108.356	112.308	104.22	119.605			
1/26/2007	3:30	133.222	131.118	127.643	108.08	111.925	103.711	119.106			
1/26/2007	4:00	133.094	130.991	127.534	107.982	111.821	103.598	119.004			
1/26/2007	4:30	133.023	130.92	127.469	107.925	111.76	103.537	118.948			
1/26/2007	5:00	132.978	130.877	127.43	107.891	111.725	103.499	118.921			
1/26/2007	5:30	132.951	130.853	127.407	107.872	111.702	103.473	118.908			
1/26/2007	6:00	132.93	130.829	127.386	107.853	111.682	103.456	118.899			
1/26/2007	6:30	132.916	130.814	127.372	107.839	111.672	103.442	118.893			
1/26/2007	7:00	132.895	130.795	127.356	107.825	111.651	103.426	118.891			
1/26/2007	7:30	132.885	130.786	127.344	107.815	111.643	103.414	118.891			
1/26/2007	8:00	134.517	132.351	128.401	108.263	111.891	103.779	119.261			
1/26/2007	8:30	134.73	132.562	128.566	108.396	112.049	103.944	119.429			
1/26/2007	9:00	134.812	132.643	128.635	108.458	112.122	104.02	119.5			
1/26/2007	9:30	134.854	132.68	128.667	108.489	112.158	104.058	119.543			
1/26/2007	10:00	133.224	131.118	127.612	108.044	111.908	103.697	119.209			
1/26/2007	10:30	133.032	130.928	127.471	107.927	111.764	103.544	119.066			
1/26/2007	11:00	132.968	130.868	127.42	107.882	111.714	103.487	119.013			
1/26/2007	11:30	132.933	130.831	127.386	107.849	111.684	103.454	118.989			
1/26/2007	12:00	132.906	130.806	127.363	107.83	111.661	103.433	118.978			
1/26/2007	12:30	132.883	130.84	127.339	107.808	111.64	103.409	118.972			
1/26/2007	13:00	132.862	130.827	127.319	107.789	111.619	103.39	118.97			
1/26/2007	13:30	132.854	130.821	127.309	107.778	111.613	103.383	118.968			
1/26/2007	14:00	132.856	130.806	127.319	107.789	111.617	103.39	118.966			
1/26/2007	14:30	132.827	130.73	127.286	107.758	111.588	103.357	118.97			
1/26/2007	15:00	132.831	130.73	127.291	107.763	111.594	103.364	118.968			
1/26/2007	15:30	132.827	130.73	127.293	107.868	111.588	103.36	118.97			
1/26/2007	16:00	132.842	130.743	127.309	108.02	111.603	103.376	118.97			
1/26/2007	16:30	132.852	130.752	127.319	108.027	111.617	103.388	118.972			
1/26/2007	17:00	132.864	130.762	127.326	108.011	111.628	103.4	118.974			
1/26/2007	17:30	132.879	130.778	127.339	107.989	111.64	103.414	118.976			
1/26/2007	18:00	132.885	130.786	127.344	107.953	111.649	103.421	118.974			
1/26/2007	18:30	132.902	130.799	127.36	107.918	111.665	103.437	118.976			
1/26/2007	19:00	132.914	130.81	127.379	107.885	111.678	103.449	118.974			
1/26/2007	19:30	132.927	130.827	127.388	107.851	111.689	103.466	118.972			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/26/2007	20:00	132.941	130.838	127.407	107.825	111.705	103.48	118.966			
1/26/2007	20:30	132.952	130.848	127.416	107.816	111.716	103.492	118.963			
1/26/2007	21:00	132.966	130.861	127.43	107.842	111.731	103.503	118.955			
1/26/2007	21:30	132.972	130.87	127.439	107.858	111.735	103.51	118.95			
1/26/2007	22:00	132.989	130.887	127.455	107.878	111.752	103.525	118.938			
1/26/2007	22:30	132.989	130.885	127.451	107.887	111.75	103.527	118.931			
1/26/2007	23:00	132.982	130.881	127.448	107.892	111.744	103.52	118.921			
1/26/2007	23:30	132.986	130.883	127.453	107.894	111.748	103.525	118.91			
1/27/2007	0:00	132.984	130.881	127.446	107.892	111.745	103.522	118.901			
1/27/2007	0:30	132.982	130.879	127.448	107.887	111.743	103.52	118.889			
1/27/2007	1:00	132.984	130.883	127.451	107.923	111.746	103.522	118.876			
1/27/2007	1:30	132.983	130.879	127.446	107.92	111.742	103.52	118.869			
1/27/2007	2:00	132.976	130.872	127.439	107.913	111.739	103.51	118.856			
1/27/2007	2:30	132.97	130.866	127.432	107.906	111.729	103.506	118.846			
1/27/2007	3:00	132.961	130.857	127.43	107.904	111.72	103.496	118.835			
1/27/2007	3:30	132.972	130.866	127.437	107.911	111.731	103.508	118.824			
1/27/2007	4:00	132.97	130.868	127.437	107.909	111.733	103.506	118.814			
1/27/2007	4:30	132.964	130.859	127.427	107.901	111.725	103.499	118.805			
1/27/2007	5:00	132.961	130.857	127.425	107.897	111.72	103.499	118.794			
1/27/2007	5:30	132.951	130.849	127.414	107.885	111.71	103.487	118.784			
1/27/2007	6:00	132.943	130.84	127.411	107.884	111.701	103.48	118.775			
1/27/2007	6:30	132.949	130.846	127.418	107.891	111.708	103.485	118.764			
1/27/2007	7:00	132.957	130.853	127.423	107.896	111.718	103.494	118.752			
1/27/2007	7:30	132.951	130.849	127.42	107.892	111.71	103.487	118.745			
1/27/2007	8:00	132.955	130.853	127.425	107.894	111.712	103.489	118.734			
1/27/2007	8:30	132.955	130.853	127.425	107.896	111.712	103.489	118.726			
1/27/2007	9:00	134.701	132.533	128.561	108.409	112.038	103.933	119.126			
1/27/2007	9:30	134.87	132.699	128.7	108.528	112.177	104.077	119.239			
1/27/2007	10:00	134.945	132.773	128.769	108.587	112.242	104.145	119.288			
1/27/2007	10:30	134.988	132.814	128.809	108.625	112.283	104.187	119.31			
1/27/2007	11:00	135.017	132.841	128.836	108.651	112.312	104.216	119.322			
1/27/2007	11:30	135.034	132.859	128.852	108.664	112.327	104.232	119.327			
1/27/2007	12:00	135.05	132.876	128.873	108.683	112.348	104.256	119.333			
1/27/2007	12:30	135.058	132.887	128.88	108.692	112.358	104.263	119.335			
1/27/2007	13:00	135.058	132.887	128.883	108.695	112.362	104.27	119.337			
1/27/2007	13:30	135.059	132.882	128.415	108.578	112.363	104.268	119.337			
1/27/2007	14:00	133.329	131.221	127.747	108.18	112.032	103.82	118.938			
1/27/2007	14:30	133.189	131.083	127.636	108.085	111.914	103.699	118.827			
1/27/2007	15:00	133.131	131.021	127.587	108.044	111.868	103.647	118.771			
1/27/2007	15:30	133.096	130.991	127.555	108.015	111.84	103.619	118.737			
1/27/2007	16:00	133.079	130.976	127.543	108.006	111.828	103.605	118.713			
1/27/2007	16:30	133.075	130.969	127.534	108.001	111.822	103.602	118.749			
1/27/2007	17:00	133.065	130.96	127.527	107.994	111.819	103.593	118.732			
1/27/2007	17:30	133.055	130.95	127.518	107.985	111.807	103.584	118.717			
1/27/2007	18:00	133.049	130.945	127.513	107.98	111.802	103.579	118.704			
1/27/2007	18:30	133.036	130.935	127.499	107.966	111.79	103.567	118.69			
1/27/2007	19:00	133.031	130.926	127.494	107.965	111.784	103.562	118.677			
1/27/2007	19:30	133.024	130.919	127.49	107.956	111.779	103.555	118.666			
1/27/2007	20:00	133.02	130.915	127.485	107.951	111.775	103.553	118.653			
1/27/2007	20:30	133.009	130.907	127.476	107.946	111.765	103.541	118.64			
1/27/2007	21:00	133.009	130.906	127.478	107.944	111.763	103.541	118.628			
1/27/2007	21:30	133.003	130.898	127.467	107.935	111.756	103.534	118.621			
1/27/2007	22:00	132.994	130.894	127.464	107.934	111.754	103.529	118.61			
1/27/2007	22:30	132.994	130.892	127.462	107.932	111.752	103.527	118.6			
1/27/2007	23:00	132.991	130.887	127.455	107.925	111.746	103.525	118.589			
1/27/2007	23:30	132.981	130.879	127.448	107.918	111.739	103.515	118.581			
1/28/2007	0:00	132.974	130.87	127.441	107.909	111.729	103.508	118.57			
1/28/2007	0:30	132.968	130.866	127.437	107.908	111.725	103.503	118.559			
1/28/2007	1:00	132.966	130.864	127.434	107.901	111.723	103.503	118.551			
1/28/2007	1:30	132.949	130.846	127.416	107.885	111.704	103.487	118.544			
1/28/2007	2:00	132.937	130.836	127.402	107.872	111.693	103.468	118.534			
1/28/2007	2:30	132.924	130.823	127.388	107.859	111.682	103.454	118.527			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/28/2007	3:00	132.906	130.806	127.374	107.842	111.662	103.437	118.521			
1/28/2007	3:30	132.897	130.797	127.367	107.835	111.657	103.43	118.516			
1/28/2007	4:00	132.889	130.788	127.358	107.828	111.647	103.423	118.51			
1/28/2007	4:30	132.883	130.782	127.351	107.82	111.638	103.419	118.508			
1/28/2007	5:00	132.873	130.771	127.344	107.813	111.628	103.407	118.504			
1/28/2007	5:30	132.866	130.764	127.337	107.804	111.622	103.4	118.501			
1/28/2007	6:00	132.86	130.758	127.33	107.799	111.617	103.395	118.497			
1/28/2007	6:30	132.862	130.758	127.333	107.801	111.619	103.395	118.495			
1/28/2007	7:00	132.86	130.762	127.333	107.801	111.617	103.395	118.495			
1/28/2007	7:30	132.868	130.762	127.339	107.808	111.626	103.402	118.491			
1/28/2007	8:00	132.866	130.76	127.337	107.808	111.624	103.402	118.488			
1/28/2007	8:30	132.871	130.756	127.342	107.813	111.632	103.409	118.484			
1/28/2007	9:00	132.873	130.756	127.342	107.811	111.63	103.409	118.48			
1/28/2007	9:30	132.866	130.754	127.788	107.956	111.624	103.402	118.478			
1/28/2007	10:00	134.651	132.476	128.501	108.335	111.971	103.869	118.91			
1/28/2007	10:30	134.79	132.609	128.619	108.433	112.085	103.989	119.012			
1/28/2007	11:00	134.854	132.671	128.674	108.483	112.142	104.046	119.181			
1/28/2007	11:30	134.887	132.708	128.702	108.508	112.169	104.074	119.189			
1/28/2007	12:00	134.901	132.734	128.718	108.518	112.184	104.088	119.211			
1/28/2007	12:30	134.9	132.751	128.718	108.52	112.185	104.091	119.229			
1/28/2007	13:00	134.895	132.766	128.718	108.521	112.181	104.088	119.246			
1/28/2007	13:30	134.895	132.738	128.718	108.52	112.184	104.088	119.263			
1/28/2007	14:00	134.896	132.755	128.714	108.518	112.184	104.091	119.282			
1/28/2007	14:30	134.879	132.727	128.707	108.511	112.171	104.079	119.299			
1/28/2007	15:00	134.879	132.742	128.702	108.511	112.175	104.081	119.314			
1/28/2007	15:30	134.885	132.758	128.714	108.52	112.186	104.088	119.331			
1/28/2007	16:00	133.354	131.245	127.703	108.111	111.992	103.796	119.042			
1/28/2007	16:30	133.073	130.984	127.513	107.954	111.792	103.577	118.837			
1/28/2007	17:00	132.975	130.905	127.43	107.88	111.71	103.489	118.767			
1/28/2007	17:30	132.93	130.866	127.388	107.846	111.672	103.449	118.737			
1/28/2007	18:00	132.895	130.808	127.356	107.818	111.642	103.416	118.724			
1/28/2007	18:30	132.866	130.799	127.328	107.791	111.617	103.393	118.713			
1/28/2007	19:00	132.854	130.79	127.319	107.78	111.609	103.381	118.705			
1/28/2007	19:30	132.835	130.743	127.298	107.763	111.592	103.362	118.704			
1/28/2007	20:00	132.821	130.743	127.282	107.747	111.577	103.35	118.702			
1/28/2007	20:30	132.821	130.745	127.289	107.754	111.581	103.35	118.704			
1/28/2007	21:00	132.811	130.747	127.277	107.744	111.569	103.341	118.704			
1/28/2007	21:30	132.797	130.702	127.261	107.728	111.554	103.327	118.704			
1/28/2007	22:00	132.788	130.707	127.256	107.723	111.548	103.319	118.705			
1/28/2007	22:30	132.79	130.711	127.256	107.722	111.55	103.322	118.707			
1/28/2007	23:00	132.776	130.713	127.242	107.711	111.537	103.31	118.709			
1/28/2007	23:30	132.769	130.713	127.238	107.708	111.531	103.301	118.711			
1/29/2007	0:00	132.775	130.715	127.245	107.715	111.541	103.312	118.715			
1/29/2007	0:30	132.775	130.717	127.249	107.722	111.542	103.312	118.719			
1/29/2007	1:00	132.792	130.717	127.263	107.732	111.556	103.327	118.724			
1/29/2007	1:30	132.799	130.719	127.268	107.739	111.56	103.334	118.728			
1/29/2007	2:00	132.799	130.722	127.268	107.741	111.56	103.331	118.734			
1/29/2007	2:30	132.807	130.722	127.275	107.747	111.571	103.341	118.735			
1/29/2007	3:00	132.817	130.722	127.286	107.76	111.581	103.352	118.739			
1/29/2007	3:30	132.827	130.724	127.3	107.773	111.59	103.362	118.741			
1/29/2007	4:00	132.835	130.726	127.305	107.777	111.598	103.371	118.745			
1/29/2007	4:30	132.844	130.726	127.316	107.789	111.607	103.378	118.747			
1/29/2007	5:00	132.85	130.728	127.319	107.794	111.613	103.385	118.749			
1/29/2007	5:30	132.854	130.73	127.321	107.794	111.617	103.39	118.747			
1/29/2007	6:00	132.852	130.73	127.321	107.794	111.615	103.388	118.745			
1/29/2007	6:30	132.852	130.728	127.321	107.792	111.615	103.388	118.743			
1/29/2007	7:00	132.852	130.728	127.323	107.796	111.615	103.388	118.739			
1/29/2007	7:30	132.865	130.762	127.33	107.801	111.624	103.4	118.739			
1/29/2007	8:00	134.569	132.381	128.552	108.313	111.922	103.822	119.169			
1/29/2007	8:30	134.778	132.588	128.718	108.451	112.085	103.996	119.322			
1/29/2007	9:00	134.856	132.665	128.79	108.513	112.156	104.065	119.387			
1/29/2007	9:30	134.903	132.71	128.836	108.552	112.2	104.11	119.425			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/29/2007	10:00	134.937	132.745	128.869	108.582	112.232	104.145	119.451			
1/29/2007	10:30	134.96	132.764	127.946	108.292	112.251	104.164	119.468			
1/29/2007	11:00	133.162	131.057	127.599	108.035	111.876	103.659	118.987			
1/29/2007	11:30	133.057	130.952	127.513	107.965	111.792	103.572	118.889			
1/29/2007	12:00	133.013	130.909	127.471	107.93	111.758	103.534	118.843			
1/29/2007	12:30	132.978	130.877	127.441	107.901	111.729	103.506	118.816			
1/29/2007	13:00	132.955	130.849	127.416	107.878	111.706	103.482	118.797			
1/29/2007	13:30	132.935	130.831	127.395	107.863	111.685	103.461	118.786			
1/29/2007	14:00	132.92	130.818	127.386	107.847	111.676	103.452	118.775			
1/29/2007	14:30	132.902	130.797	127.367	107.832	111.655	103.433	118.766			
1/29/2007	15:00	132.893	130.79	127.363	107.827	111.647	103.426	118.758			
1/29/2007	15:30	132.899	130.797	127.365	107.83	111.651	103.428	118.754			
1/29/2007	16:00	132.893	130.79	127.363	107.834	111.653	103.426	118.749			
1/29/2007	16:30	132.906	130.806	127.376	107.844	111.668	103.444	118.745			
1/29/2007	17:00	132.916	130.812	127.381	107.851	111.678	103.452	118.741			
1/29/2007	17:30	132.91	130.808	127.376	107.847	111.668	103.444	118.737			
1/29/2007	18:00	132.912	130.812	127.379	107.849	111.672	103.447	118.73			
1/29/2007	18:30	132.912	130.807	127.379	107.851	111.67	103.447	118.724			
1/29/2007	19:00	132.914	130.812	127.383	107.854	111.676	103.449	118.72			
1/29/2007	19:30	132.918	130.818	127.39	107.863	111.682	103.456	118.713			
1/29/2007	20:00	132.926	130.825	127.397	107.87	111.687	103.463	118.705			
1/29/2007	20:30	132.941	130.84	127.414	107.884	111.702	103.477	118.698			
1/29/2007	21:00	132.951	130.849	127.42	107.891	111.71	103.487	118.688			
1/29/2007	21:30	132.953	130.851	127.42	107.891	111.712	103.489	118.681			
1/29/2007	22:00	132.955	130.853	127.427	107.901	111.714	103.492	118.67			
1/29/2007	22:30	132.964	130.861	127.432	107.906	111.723	103.499	118.66			
1/29/2007	23:00	132.97	130.866	127.441	107.915	111.729	103.506	118.651			
1/29/2007	23:30	132.978	130.874	127.446	107.916	111.735	103.515	118.64			
1/30/2007	0:00	132.976	130.872	127.446	107.918	111.737	103.513	118.627			
1/30/2007	0:30	132.984	130.881	127.453	107.927	111.742	103.52	118.615			
1/30/2007	1:00	132.986	130.885	127.453	107.925	111.746	103.522	118.602			
1/30/2007	1:30	132.974	130.872	127.444	107.915	111.733	103.51	118.591			
1/30/2007	2:00	132.964	130.864	127.432	107.904	111.723	103.499	118.58			
1/30/2007	2:30	132.957	130.857	127.43	107.901	111.716	103.494	118.568			
1/30/2007	3:00	132.955	130.853	127.427	107.897	111.714	103.494	118.555			
1/30/2007	3:30	132.959	130.857	127.432	107.904	111.718	103.496	118.542			
1/30/2007	4:00	132.957	130.855	127.427	107.899	111.718	103.494	118.531			
1/30/2007	4:30	132.947	130.846	127.418	107.889	111.706	103.485	118.521			
1/30/2007	5:00	132.941	130.84	127.411	107.884	111.701	103.48	118.51			
1/30/2007	5:30	132.939	130.836	127.409	107.878	111.699	103.475	118.499			
1/30/2007	6:00	132.928	130.827	127.402	107.872	111.689	103.466	118.488			
1/30/2007	6:30	132.924	130.823	127.397	107.866	111.682	103.461	118.486			
1/30/2007	7:00	132.92	130.818	127.39	107.861	111.678	103.459	118.476			
1/30/2007	7:30	132.914	130.81	127.383	107.853	111.668	103.449	118.467			
1/30/2007	8:00	134.542	132.377	128.445	108.309	111.918	103.81	118.807			
1/30/2007	8:30	134.779	132.611	128.621	108.445	112.091	103.992	118.978			
1/30/2007	9:00	134.87	132.702	128.702	108.518	112.169	104.072	119.047			
1/30/2007	9:30	134.92	132.751	128.751	108.561	112.217	104.119	119.085			
1/30/2007	10:00	134.949	132.779	128.776	108.589	112.245	104.15	119.107			
1/30/2007	10:30	133.362	131.245	127.749	108.166	112.03	103.829	118.797			
1/30/2007	11:00	133.139	131.023	127.589	108.035	111.866	103.65	118.621			
1/30/2007	11:30	133.065	130.945	127.525	107.982	111.803	103.584	118.553			
1/30/2007	12:00	133.028	130.905	127.492	107.953	111.773	103.551	118.516			
1/30/2007	12:30	132.997	130.878	127.464	107.925	111.748	103.525	118.493			
1/30/2007	13:00	132.968	130.859	127.437	107.899	111.72	103.499	118.474			
1/30/2007	13:30	132.945	130.842	127.411	107.873	111.695	103.473	118.459			
1/30/2007	14:00	132.918	130.831	127.383	107.847	111.672	103.449	118.448			
1/30/2007	14:30	132.889	130.816	127.358	107.82	111.643	103.421	118.439			
1/30/2007	15:00	132.864	130.806	127.333	107.799	111.621	103.397	118.431			
1/30/2007	15:30	132.856	130.799	127.321	107.785	111.611	103.402	118.452			
1/30/2007	16:00	132.835	130.788	127.305	107.772	111.59	103.369	118.441			
1/30/2007	16:30	132.823	130.78	127.291	107.76	111.581	103.357	118.435			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
1/30/2007	17:00	132.815	130.736	127.282	107.749	111.571	103.348	118.435			
1/30/2007	17:30	132.802	130.736	127.272	107.737	111.56	103.336	118.437			
1/30/2007	18:00	132.792	130.736	127.263	107.73	111.548	103.327	118.437			
1/30/2007	18:30	132.786	130.732	127.261	107.727	111.544	103.319	118.437			
1/30/2007	19:00	132.784	130.732	127.256	107.725	111.542	103.319	118.441			
1/30/2007	19:30	132.778	130.732	127.251	107.72	111.537	103.312	118.442			
1/30/2007	20:00	132.775	130.728	127.247	107.715	111.535	103.308	118.446			
1/30/2007	20:30	132.771	130.728	127.242	107.71	111.527	103.305	118.448			
1/30/2007	21:00	132.765	130.726	127.238	107.704	111.522	103.301	118.45			
1/30/2007	21:30	132.761	130.726	127.231	107.699	111.52	103.296	118.454			
1/30/2007	22:00	132.755	130.687	127.224	107.692	111.512	103.289	118.457			
1/30/2007	22:30	132.749	130.687	127.219	107.687	111.506	103.282	118.459			
1/30/2007	23:00	132.738	130.689	127.207	107.673	111.495	103.27	118.465			
1/30/2007	23:30	132.724	130.691	127.189	107.658	111.482	103.256	118.469			
1/31/2007	0:00	132.72	130.657	127.191	107.66	111.482	103.253	118.472			
1/31/2007	0:30	132.711	130.661	127.18	107.647	111.47	103.244	118.476			
1/31/2007	1:00	132.709	130.661	127.18	107.649	111.47	103.244	118.482			
1/31/2007	1:30	132.699	130.663	127.166	107.635	111.459	103.232	118.488			
1/31/2007	2:00	132.693	130.629	127.164	107.63	111.451	103.228	118.493			
1/31/2007	2:30	132.678	130.633	127.145	107.616	111.436	103.211	118.499			
1/31/2007	3:00	132.668	130.635	127.138	107.608	111.43	103.202	118.501			
1/31/2007	3:30	132.656	130.601	127.124	107.594	111.413	103.185	118.508			
1/31/2007	4:00	132.645	130.605	127.117	107.585	111.403	103.178	118.508			
1/31/2007	4:30	132.641	130.608	127.115	107.589	111.403	103.178	118.514			
1/31/2007	5:00	132.641	130.564	127.108	107.579	111.402	103.176	118.523			
1/31/2007	5:30	132.635	130.573	127.108	107.58	111.398	103.171	118.531			
1/31/2007	6:00	132.639	130.58	127.11	107.582	111.4	103.171	118.536			
1/31/2007	6:30	132.639	130.586	127.106	107.579	111.4	103.176	118.544			
1/31/2007	7:00	132.631	130.56	127.104	107.573	111.392	103.169	118.551			
1/31/2007	7:30	132.621	130.571	127.094	107.563	111.383	103.154	118.538			
1/31/2007	8:00	134.399	132.262	128.369	108.115	111.723	103.626	118.985			
1/31/2007	8:30	134.593	132.449	128.529	108.247	111.883	103.793	119.126			
1/31/2007	9:00	134.67	132.486	128.591	108.297	111.944	103.857	119.194			
1/31/2007	9:30	134.705	132.542	128.635	108.34	111.981	103.893	119.214			
1/31/2007	10:00	134.742	132.583	128.672	108.375	112.017	103.928	119.239			
1/31/2007	10:30	134.771	132.615	128.7	108.401	112.047	103.961	119.291			
1/31/2007	11:00	134.794	132.641	128.725	108.428	112.072	103.987	119.316			
1/31/2007	11:30	134.823	132.661	128.755	108.459	112.102	104.015	119.338			
1/31/2007	12:00	134.848	132.684	128.776	108.478	112.127	104.039	119.363			
1/31/2007	12:30	134.862	132.704	128.79	108.494	112.142	104.053	119.382			
1/31/2007	13:00	134.874	132.721	128.797	108.504	112.156	104.067	119.397			
1/31/2007	13:30	134.879	132.736	128.806	108.511	112.163	104.077	119.417			
1/31/2007	14:00	133.267	131.214	127.636	108.047	111.925	103.718	119.083			
1/31/2007	14:30	133.003	130.922	127.441	107.885	111.726	103.506	118.884			
1/31/2007	15:00	132.908	130.84	127.36	107.811	111.647	103.423	118.824			
1/31/2007	15:30	132.852	130.799	127.312	107.77	111.598	103.371	118.794			
1/31/2007	16:00	132.823	130.775	127.284	107.747	111.573	103.348	118.779			
1/31/2007	16:30	132.806	130.76	127.27	107.735	111.562	103.334	118.769			
1/31/2007	17:00	132.794	130.715	127.261	107.728	111.552	103.324	118.764			
1/31/2007	17:30	132.788	130.713	127.256	107.725	111.55	103.317	118.758			
1/31/2007	18:00	132.786	130.708	127.254	107.725	111.548	103.317	118.756			
1/31/2007	18:30	132.792	130.706	127.259	107.73	111.556	103.324	118.752			
1/31/2007	19:00	132.796	130.709	127.265	107.735	111.56	103.329	118.754			
1/31/2007	19:30	132.806	130.704	127.277	107.753	111.571	103.341	118.75			
1/31/2007	20:00	132.815	130.706	127.284	107.756	111.579	103.35	118.75			
1/31/2007	20:30	132.817	130.708	127.286	107.76	111.581	103.352	118.749			
1/31/2007	21:00	132.819	130.711	127.284	107.758	111.581	103.352	118.747			
1/31/2007	21:30	132.815	130.711	127.279	107.753	111.577	103.348	118.745			
1/31/2007	22:00	132.813	130.711	127.282	107.756	111.575	103.348	118.743			
1/31/2007	22:30	132.815	130.709	127.284	107.758	111.577	103.35	118.739			
1/31/2007	23:00	132.815	130.708	127.284	107.754	111.577	103.352	118.737			
1/31/2007	23:30	132.803	130.711	127.272	107.742	111.563	103.338	118.737			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/1/2007	0:00	132.809	130.704	127.279	107.751	111.573	103.345	118.732			
2/1/2007	0:30	132.813	130.704	127.282	107.753	111.577	103.35	118.73			
2/1/2007	1:00	132.806	130.704	127.275	107.746	111.569	103.345	118.728			
2/1/2007	1:30	132.794	130.704	127.265	107.735	111.554	103.329	118.726			
2/1/2007	2:00	132.79	130.702	127.259	107.73	111.552	103.324	118.722			
2/1/2007	2:30	132.796	130.696	127.265	107.739	111.56	103.331	118.72			
2/1/2007	3:00	132.797	130.695	127.268	107.742	111.562	103.334	118.717			
2/1/2007	3:30	132.795	130.696	127.265	107.737	111.562	103.331	118.715			
2/1/2007	4:00	132.794	130.691	127.261	107.732	111.558	103.331	118.713			
2/1/2007	4:30	132.784	130.691	127.252	107.723	111.548	103.322	118.709			
2/1/2007	5:00	132.773	130.691	127.24	107.713	111.539	103.31	118.705			
2/1/2007	5:30	132.765	130.689	127.235	107.708	111.529	103.303	118.704			
2/1/2007	6:00	132.763	130.685	127.235	107.706	111.527	103.303	118.7			
2/1/2007	6:30	132.756	130.685	127.231	107.703	111.522	103.296	118.694			
2/1/2007	7:00	132.752	130.683	127.221	107.694	111.52	103.291	118.694			
2/1/2007	7:30	132.751	130.681	127.821	107.896	111.514	103.289	118.692			
2/1/2007	8:00	134.575	132.413	128.533	108.278	111.897	103.805	119.196			
2/1/2007	8:30	134.728	132.555	128.665	108.389	112.026	103.937	119.308			
2/1/2007	9:00	134.794	132.626	128.725	108.442	112.082	103.994	119.367			
2/1/2007	9:30	134.833	132.665	128.769	108.482	112.122	104.034	119.459			
2/1/2007	10:00	134.872	132.693	128.804	108.514	112.158	104.072	119.483			
2/1/2007	10:30	134.899	132.714	128.827	108.533	112.184	104.098	119.504			
2/1/2007	11:00	134.908	132.732	128.839	108.547	112.196	104.107	119.519			
2/1/2007	11:30	134.922	132.749	128.852	108.561	112.211	104.124	119.534			
2/1/2007	12:00	134.932	132.76	128.864	108.575	112.224	104.135	119.545			
2/1/2007	12:30	133.453	131.365	127.763	108.158	112.057	103.869	119.282			
2/1/2007	13:00	133.087	131.021	127.527	107.968	111.807	103.593	119.03			
2/1/2007	13:30	132.976	130.924	127.427	107.878	111.714	103.489	118.948			
2/1/2007	14:00	132.911	130.836	127.365	107.823	111.657	103.43	118.906			
2/1/2007	14:30	132.868	130.81	127.33	107.792	111.622	103.393	118.882			
2/1/2007	15:00	132.841	130.793	127.305	107.77	111.596	103.371	118.867			
2/1/2007	15:30	132.812	130.777	127.274	107.742	111.569	103.341	118.859			
2/1/2007	16:00	132.8	130.762	127.268	107.735	111.56	103.334	118.852			
2/1/2007	16:30	132.796	130.754	127.268	107.735	111.558	103.331	118.85			
2/1/2007	17:00	132.802	130.75	127.268	107.737	111.562	103.334	118.848			
2/1/2007	17:30	132.804	130.747	127.272	107.742	111.569	103.343	118.927			
2/1/2007	18:00	132.804	130.741	127.275	107.744	111.569	103.338	118.908			
2/1/2007	18:30	132.81	130.737	127.279	107.753	111.573	103.343	118.906			
2/1/2007	19:00	132.833	130.73	127.312	107.785	111.598	103.369	118.903			
2/1/2007	19:30	132.858	130.73	127.33	107.804	111.624	103.393	118.903			
2/1/2007	20:00	132.868	130.728	127.339	107.811	111.636	103.407	118.903			
2/1/2007	20:30	132.889	130.73	127.365	107.839	111.657	103.428	118.895			
2/1/2007	21:00	132.907	130.749	127.381	107.856	111.676	103.452	118.889			
2/1/2007	21:30	132.926	130.767	127.4	107.875	111.691	103.466	118.882			
2/1/2007	22:00	132.947	130.795	127.42	107.897	111.716	103.489	118.873			
2/1/2007	22:30	132.965	130.788	127.437	107.913	111.731	103.506	118.861			
2/1/2007	23:00	132.976	130.795	127.444	107.918	111.741	103.515	118.848			
2/1/2007	23:30	132.98	130.803	127.453	107.925	111.746	103.518	118.837			
2/2/2007	0:00	132.986	130.809	127.457	107.934	111.748	103.525	118.824			
2/2/2007	0:30	132.988	130.809	127.464	107.937	111.756	103.529	118.809			
2/2/2007	1:00	132.992	130.81	127.46	107.935	111.754	103.532	118.794			
2/2/2007	1:30	132.99	130.812	127.46	107.932	111.752	103.527	118.777			
2/2/2007	2:00	132.978	130.803	127.448	107.922	111.739	103.513	118.766			
2/2/2007	2:30	132.969	130.793	127.434	107.904	111.733	103.508	118.749			
2/2/2007	3:00	132.964	130.784	127.439	107.908	111.725	103.501	118.735			
2/2/2007	3:30	132.964	130.786	127.437	107.908	111.725	103.499	118.721			
2/2/2007	4:00	132.957	130.778	127.43	107.901	111.72	103.494	118.707			
2/2/2007	4:30	132.947	130.771	127.416	107.887	111.708	103.487	118.694			
2/2/2007	5:00	132.935	130.762	127.404	107.875	111.699	103.473	118.685			
2/2/2007	5:30	132.922	130.756	127.39	107.863	111.683	103.459	118.67			
2/2/2007	6:00	132.912	130.747	127.381	107.853	111.674	103.449	118.658			
2/2/2007	6:30	132.895	130.741	127.365	107.834	111.657	103.433	118.649			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/2/2007	7:00	132.882	130.732	127.356	107.828	111.645	103.421	118.638			
2/2/2007	7:30	132.866	130.728	127.339	107.809	111.63	103.404	118.627			
2/2/2007	8:00	134.542	132.344	128.422	108.28	111.904	103.793	118.989			
2/2/2007	8:30	134.732	132.532	128.573	108.399	112.049	103.944	119.117			
2/2/2007	9:00	134.802	132.605	128.633	108.452	112.108	104.008	119.166			
2/2/2007	9:30	134.837	132.643	128.67	108.487	112.146	104.046	119.19			
2/2/2007	10:00	134.862	132.669	128.691	108.504	112.165	104.069	119.199			
2/2/2007	10:30	134.868	132.689	128.702	108.516	112.175	104.079	119.209			
2/2/2007	11:00	134.882	132.699	128.711	108.527	112.19	104.093	119.218			
2/2/2007	11:30	134.885	132.708	128.721	108.533	112.196	104.1	119.224			
2/2/2007	12:00	134.887	132.717	128.723	108.533	112.202	104.107	119.231			
2/2/2007	12:30	134.885	132.725	127.985	108.294	112.2	104.102	119.237			
2/2/2007	13:00	133.128	131.053	127.559	107.99	111.842	103.626	118.871			
2/2/2007	13:30	132.99	130.93	127.439	107.885	111.722	103.499	118.781			
2/2/2007	14:00	132.909	130.835	127.367	107.822	111.651	103.428	118.743			
2/2/2007	14:30	132.862	130.81	127.323	107.782	111.611	103.385	118.719			
2/2/2007	15:00	132.825	130.79	127.293	107.753	111.579	103.35	118.705			
2/2/2007	15:30	132.798	130.773	127.268	107.727	111.556	103.329	118.7			
2/2/2007	16:00	132.779	130.751	127.247	107.71	111.539	103.308	118.696			
2/2/2007	16:30	132.765	130.7	127.231	107.694	111.523	103.291	118.696			
2/2/2007	17:00	132.748	130.687	127.221	107.685	111.51	103.279	118.696			
2/2/2007	17:30	132.74	130.68	127.215	107.684	111.502	103.27	118.696			
2/2/2007	18:00	132.736	130.676	127.205	107.673	111.501	103.27	118.698			
2/2/2007	18:30	132.732	130.672	127.203	107.67	111.497	103.268	118.702			
2/2/2007	19:00	132.736	130.67	127.21	107.68	111.501	103.27	118.705			
2/2/2007	19:30	132.742	130.672	127.217	107.689	111.508	103.277	118.707			
2/2/2007	20:00	132.752	130.679	127.224	107.694	111.518	103.289	118.709			
2/2/2007	20:30	132.754	130.68	127.231	107.701	111.522	103.294	118.713			
2/2/2007	21:00	132.763	130.685	127.238	107.71	111.529	103.298	118.713			
2/2/2007	21:30	132.769	130.687	127.247	107.716	111.535	103.308	118.715			
2/2/2007	22:00	132.781	130.691	127.254	107.725	111.548	103.317	118.715			
2/2/2007	22:30	132.79	130.698	127.263	107.734	111.556	103.327	118.715			
2/2/2007	23:00	132.796	130.702	127.272	107.744	111.563	103.336	118.717			
2/2/2007	23:30	132.806	130.708	127.282	107.753	111.571	103.343	118.715			
2/3/2007	0:00	132.819	130.722	127.296	107.768	111.584	103.355	118.713			
2/3/2007	0:30	132.833	130.717	127.309	107.782	111.602	103.369	118.707			
2/3/2007	1:00	132.848	130.715	127.323	107.794	111.611	103.385	118.704			
2/3/2007	1:30	132.864	130.736	127.339	107.811	111.628	103.402	118.698			
2/3/2007	2:00	132.871	130.732	127.346	107.82	111.636	103.409	118.692			
2/3/2007	2:30	132.879	130.738	127.353	107.825	111.643	103.414	118.685			
2/3/2007	3:00	132.893	130.743	127.367	107.841	111.657	103.435	118.677			
2/3/2007	3:30	132.905	130.773	127.381	107.854	111.674	103.449	118.668			
2/3/2007	4:00	132.913	130.764	127.39	107.865	111.682	103.454	118.658			
2/3/2007	4:30	132.928	130.771	127.404	107.878	111.697	103.47	118.647			
2/3/2007	5:00	132.928	130.762	127.402	107.872	111.693	103.468	118.638			
2/3/2007	5:30	132.924	130.754	127.395	107.87	111.689	103.466	118.625			
2/3/2007	6:00	132.92	130.747	127.395	107.868	111.683	103.461	118.615			
2/3/2007	6:30	132.922	130.754	127.4	107.872	111.687	103.461	118.604			
2/3/2007	7:00	132.922	130.76	127.4	107.872	111.685	103.461	118.591			
2/3/2007	7:30	132.922	130.752	127.395	107.868	111.683	103.459	118.58			
2/3/2007	8:00	132.926	130.76	127.397	107.87	111.687	103.463	118.57			
2/3/2007	8:30	132.92	130.769	127.395	107.865	111.683	103.459	118.557			
2/3/2007	9:00	134.19	131.961	128.443	108.261	111.775	103.628	118.713			
2/3/2007	9:30	134.773	132.523	128.73	108.471	112.091	103.999	118.976			
2/3/2007	10:00	134.901	132.646	128.848	108.573	112.205	104.116	119.036			
2/3/2007	10:30	134.965	132.718	128.899	108.616	112.259	104.173	119.156			
2/3/2007	11:00	135.007	132.747	128.943	108.654	112.299	104.213	119.241			
2/3/2007	11:30	135.027	132.79	128.961	108.671	112.318	104.232	119.256			
2/3/2007	12:00	133.28	131.119	127.707	108.137	111.982	103.772	118.816			
2/3/2007	12:30	133.118	130.976	127.571	108.02	111.847	103.631	118.709			
2/3/2007	13:00	133.039	130.911	127.501	107.954	111.782	103.562	118.66			
2/3/2007	13:30	132.98	130.874	127.448	107.906	111.725	103.503	118.63			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/3/2007	14:00	132.94	130.848	127.407	107.87	111.691	103.468	118.611			
2/3/2007	14:30	132.91	130.827	127.374	107.835	111.661	103.435	118.598			
2/3/2007	15:00	132.877	130.812	127.342	107.804	111.63	103.407	118.587			
2/3/2007	15:30	132.856	130.794	127.326	107.792	111.611	103.385	118.576			
2/3/2007	16:00	132.856	130.781	127.33	107.797	111.615	103.388	118.568			
2/3/2007	16:30	132.854	130.771	127.323	107.792	111.613	103.388	118.565			
2/3/2007	17:00	132.86	130.762	127.33	107.799	111.621	103.395	118.559			
2/3/2007	17:30	132.868	130.773	127.33	107.799	111.63	103.404	118.682			
2/3/2007	18:00	132.846	130.756	127.319	107.787	111.605	103.381	118.589			
2/3/2007	18:30	132.848	130.743	127.321	107.791	111.609	103.383	118.577			
2/3/2007	19:00	132.846	130.736	127.326	107.794	111.605	103.381	118.565			
2/3/2007	19:30	132.846	130.73	127.319	107.791	111.607	103.383	118.552			
2/3/2007	20:00	132.858	130.723	127.333	107.804	111.622	103.397	118.584			
2/3/2007	20:30	132.856	130.722	127.33	107.799	111.617	103.395	118.573			
2/3/2007	21:00	132.856	130.717	127.328	107.796	111.617	103.393	118.576			
2/3/2007	21:30	132.854	130.713	127.328	107.796	111.615	103.39	118.576			
2/3/2007	22:00	132.848	130.71	127.326	107.794	111.611	103.385	118.574			
2/3/2007	22:30	132.854	130.707	127.326	107.796	111.617	103.393	118.57			
2/3/2007	23:00	132.848	130.704	127.319	107.789	111.609	103.385	118.569			
2/3/2007	23:30	132.844	130.698	127.316	107.784	111.602	103.381	118.563			
2/4/2007	0:00	132.84	130.7	127.312	107.782	111.596	103.374	118.561			
2/4/2007	0:30	132.837	130.695	127.309	107.777	111.596	103.374	118.555			
2/4/2007	1:00	132.825	130.691	127.305	107.773	111.584	103.362	118.551			
2/4/2007	1:30	132.823	130.687	127.302	107.772	111.584	103.36	118.546			
2/4/2007	2:00	132.827	130.685	127.296	107.763	111.586	103.362	118.542			
2/4/2007	2:30	132.825	130.68	127.298	107.766	111.584	103.36	118.537			
2/4/2007	3:00	132.814	130.681	127.291	107.758	111.575	103.35	118.533			
2/4/2007	3:30	132.817	130.674	127.291	107.76	111.581	103.355	118.527			
2/4/2007	4:00	132.813	130.672	127.286	107.756	111.575	103.348	118.523			
2/4/2007	4:30	132.809	130.67	127.286	107.756	111.567	103.345	118.518			
2/4/2007	5:00	132.804	130.667	127.279	107.747	111.565	103.343	118.514			
2/4/2007	5:30	132.8	130.666	127.277	107.746	111.562	103.338	118.508			
2/4/2007	6:00	132.802	130.661	127.277	107.746	111.562	103.336	118.503			
2/4/2007	6:30	132.809	130.657	127.289	107.756	111.571	103.345	118.499			
2/4/2007	7:00	132.819	130.659	127.296	107.765	111.579	103.357	118.493			
2/4/2007	7:30	132.829	130.693	127.309	107.78	111.594	103.367	118.488			
2/4/2007	8:00	132.846	130.687	127.321	107.794	111.609	103.385	118.48			
2/4/2007	8:30	132.862	130.724	127.335	107.803	111.624	103.397	118.475			
2/4/2007	9:00	132.862	130.717	127.337	107.806	111.624	103.4	118.469			
2/4/2007	9:30	134.595	132.37	128.468	108.318	111.935	103.829	118.865			
2/4/2007	10:00	134.794	132.581	128.63	108.452	112.091	103.991	118.998			
2/4/2007	10:30	134.881	132.652	128.704	108.513	112.165	104.069	119.055			
2/4/2007	11:00	134.928	132.695	128.75	108.554	112.211	104.117	119.083			
2/4/2007	11:30	134.957	132.745	128.776	108.578	112.236	104.143	119.098			
2/4/2007	12:00	134.974	132.762	128.792	108.594	112.253	104.161	119.107			
2/4/2007	12:30	134.986	132.768	128.806	108.608	112.268	104.176	119.113			
2/4/2007	13:00	134.994	132.774	128.822	108.625	112.282	104.192	119.117			
2/4/2007	13:30	135.005	132.783	128.825	108.628	112.293	104.202	119.119			
2/4/2007	14:00	134.998	132.794	128.818	108.614	112.285	104.192	119.122			
2/4/2007	14:30	134.978	132.798	128.806	108.611	112.27	104.173	119.126			
2/4/2007	15:00	133.34	131.234	127.73	108.144	112.011	103.805	118.811			
2/4/2007	15:30	133.112	131.019	127.557	107.999	111.836	103.617	118.642			
2/4/2007	16:00	133.023	130.935	127.483	107.935	111.758	103.539	118.572			
2/4/2007	16:30	132.965	130.891	127.43	107.889	111.708	103.487	118.534			
2/4/2007	17:00	132.947	130.857	127.416	107.878	111.695	103.473	118.51			
2/4/2007	17:30	132.939	130.84	127.409	107.873	111.691	103.466	118.493			
2/4/2007	18:00	132.928	130.825	127.395	107.856	111.683	103.459	118.48			
2/4/2007	18:30	132.912	130.812	127.379	107.842	111.67	103.444	118.471			
2/4/2007	19:00	132.902	130.801	127.369	107.837	111.657	103.435	118.463			
2/4/2007	19:30	132.902	130.79	127.374	107.842	111.662	103.437	118.454			
2/4/2007	20:00	132.906	130.781	127.376	107.844	111.666	103.44	118.444			
2/4/2007	20:30	132.887	130.779	127.353	107.82	111.647	103.421	118.439			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/4/2007	21:00	132.883	130.769	127.353	107.823	111.643	103.421	118.431			
2/4/2007	21:30	132.866	130.765	127.339	107.808	111.628	103.404	118.427			
2/4/2007	22:00	132.864	130.756	127.348	107.818	111.628	103.404	118.418			
2/4/2007	22:30	132.856	130.749	127.342	107.815	111.617	103.39	118.414			
2/4/2007	23:00	132.858	130.749	127.337	107.809	111.619	103.393	118.41			
2/4/2007	23:30	132.866	130.741	127.342	107.815	111.628	103.402	118.403			
2/5/2007	0:00	132.875	130.736	127.346	107.816	111.636	103.414	118.395			
2/5/2007	0:30	132.875	130.732	127.349	107.82	111.636	103.411	118.39			
2/5/2007	1:00	132.868	130.73	127.339	107.808	111.628	103.404	118.386			
2/5/2007	1:30	132.856	130.726	127.323	107.789	111.617	103.393	118.38			
2/5/2007	2:00	132.835	130.722	127.302	107.772	111.596	103.371	118.373			
2/5/2007	2:30	132.833	130.715	127.302	107.772	111.592	103.371	118.369			
2/5/2007	3:00	132.813	130.715	127.284	107.751	111.571	103.348	118.365			
2/5/2007	3:30	132.786	130.713	127.261	107.73	111.544	103.322	118.364			
2/5/2007	4:00	132.798	130.704	127.277	107.746	111.562	103.338	118.358			
2/5/2007	4:30	132.806	130.702	127.279	107.747	111.567	103.348	118.358			
2/5/2007	5:00	132.794	130.702	127.263	107.734	111.554	103.334	118.358			
2/5/2007	5:30	132.788	130.698	127.263	107.73	111.55	103.327	118.354			
2/5/2007	6:00	132.79	130.695	127.263	107.732	111.552	103.329	118.354			
2/5/2007	6:30	132.78	130.696	127.254	107.723	111.541	103.317	118.352			
2/5/2007	7:00	132.769	130.694	127.245	107.716	111.531	103.305	118.352			
2/5/2007	7:30	132.778	130.687	127.254	107.725	111.541	103.315	118.349			
2/5/2007	8:00	134.554	132.378	128.415	108.263	111.891	103.786	118.752			
2/5/2007	8:30	134.711	132.54	128.547	108.37	112.017	103.914	118.858			
2/5/2007	9:00	134.779	132.609	128.607	108.418	112.074	103.975	118.901			
2/5/2007	9:30	134.823	132.652	128.649	108.459	112.118	104.02	118.927			
2/5/2007	10:00	134.856	132.676	128.674	108.485	112.146	104.048	118.944			
2/5/2007	10:30	134.872	132.693	128.7	108.511	112.169	104.074	118.953			
2/5/2007	11:00	134.885	132.706	128.714	108.525	112.186	104.088	118.963			
2/5/2007	11:30	134.902	132.719	128.73	108.539	112.203	104.105	118.97			
2/5/2007	12:00	134.905	132.732	127.969	108.283	112.207	104.11	118.976			
2/5/2007	12:30	133.138	131.04	127.575	108.011	111.847	103.636	118.621			
2/5/2007	13:00	133.014	130.921	127.462	107.911	111.746	103.525	118.534			
2/5/2007	13:30	132.945	130.866	127.407	107.859	111.687	103.463	118.493			
2/5/2007	14:00	132.903	130.836	127.367	107.828	111.649	103.426	118.471			
2/5/2007	14:30	132.875	130.816	127.339	107.801	111.624	103.4	118.457			
2/5/2007	15:00	132.846	130.788	127.312	107.775	111.598	103.371	118.446			
2/5/2007	15:30	132.833	130.775	127.302	107.768	111.588	103.362	118.442			
2/5/2007	16:00	132.837	130.765	127.309	107.775	111.594	103.369	118.435			
2/5/2007	16:30	132.827	130.76	127.296	107.765	111.588	103.36	118.435			
2/5/2007	17:00	132.829	130.754	127.3	107.77	111.592	103.364	118.431			
2/5/2007	17:30	132.813	130.751	127.275	107.742	111.571	103.345	118.431			
2/5/2007	18:00	132.802	130.734	127.277	107.744	111.563	103.338	118.427			
2/5/2007	18:30	132.809	130.73	127.282	107.754	111.569	103.345	118.424			
2/5/2007	19:00	132.815	130.728	127.286	107.756	111.575	103.35	118.422			
2/5/2007	19:30	132.813	130.723	127.279	107.751	111.577	103.352	118.422			
2/5/2007	20:00	132.813	130.721	127.291	107.763	111.579	103.35	118.418			
2/5/2007	20:30	132.819	130.719	127.286	107.76	111.585	103.355	118.418			
2/5/2007	21:00	132.806	130.719	127.279	107.749	111.565	103.341	118.416			
2/5/2007	21:30	132.8	130.715	127.277	107.747	111.563	103.336	118.412			
2/5/2007	22:00	132.794	130.713	127.263	107.735	111.556	103.331	118.412			
2/5/2007	22:30	132.795	130.708	127.265	107.737	111.556	103.329	118.409			
2/5/2007	23:00	132.784	130.71	127.256	107.727	111.545	103.319	118.409			
2/5/2007	23:30	132.775	130.706	127.238	107.708	111.535	103.31	118.407			
2/6/2007	0:00	132.753	130.695	127.224	107.694	111.514	103.289	118.409			
2/6/2007	0:30	132.738	130.636	127.21	107.679	111.501	103.272	118.409			
2/6/2007	1:00	132.728	130.642	127.198	107.668	111.487	103.263	118.407			
2/6/2007	1:30	132.709	130.644	127.18	107.649	111.47	103.244	118.403			
2/6/2007	2:00	132.699	130.644	127.173	107.641	111.459	103.235	118.403			
2/6/2007	2:30	132.695	130.633	127.166	107.635	111.455	103.227	118.401			
2/6/2007	3:00	132.681	130.629	127.147	107.618	111.44	103.213	118.401			
2/6/2007	3:30	132.66	130.59	127.129	107.596	111.421	103.192	118.399			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/6/2007	4:00	132.642	130.594	127.11	107.577	111.4	103.173	118.397			
2/6/2007	4:30	132.623	130.547	127.092	107.561	111.384	103.157	118.395			
2/6/2007	5:00	132.611	130.554	127.08	107.548	111.373	103.145	118.395			
2/6/2007	5:30	132.606	130.56	127.073	107.542	111.367	103.14	118.394			
2/6/2007	6:00	132.59	130.504	127.062	107.532	111.352	103.124	118.395			
2/6/2007	6:30	132.587	130.515	127.055	107.522	111.35	103.119	118.397			
2/6/2007	7:00	132.571	130.521	127.041	107.51	111.331	103.102	118.384			
2/6/2007	7:30	132.561	130.476	127.527	107.685	111.322	103.093	118.379			
2/6/2007	8:00	134.362	132.219	128.32	108.061	111.683	103.583	118.858			
2/6/2007	8:30	134.509	132.37	128.448	108.168	111.805	103.711	119.03			
2/6/2007	9:00	134.573	132.396	128.508	108.225	111.866	103.772	119.098			
2/6/2007	9:30	134.633	132.452	128.563	108.277	111.922	103.834	119.149			
2/6/2007	10:00	134.666	132.497	128.61	108.323	111.952	103.864	119.183			
2/6/2007	10:30	134.726	132.527	128.658	108.366	112.015	103.926	119.218			
2/6/2007	11:00	134.769	132.553	128.704	108.411	112.061	103.973	119.25			
2/6/2007	11:30	133.09	130.958	127.501	107.92	111.779	103.567	118.859			
2/6/2007	12:00	132.914	130.779	127.37	107.818	111.647	103.423	118.715			
2/6/2007	12:30	132.862	130.717	127.321	107.777	111.605	103.383	118.664			
2/6/2007	13:00	132.823	130.691	127.286	107.746	111.573	103.345	118.636			
2/6/2007	13:30	132.813	130.672	127.282	107.746	111.569	103.341	118.623			
2/6/2007	14:00	132.806	130.667	127.275	107.737	111.564	103.336	118.617			
2/6/2007	14:30	132.792	130.666	127.261	107.727	111.554	103.324	118.611			
2/6/2007	15:00	132.79	130.663	127.259	107.727	111.55	103.319	118.608			
2/6/2007	15:30	132.796	130.659	127.268	107.735	111.558	103.329	118.606			
2/6/2007	16:00	132.811	130.657	127.289	107.756	111.575	103.348	118.608			
2/6/2007	16:30	132.829	130.687	127.305	107.775	111.594	103.364	118.613			
2/6/2007	17:00	132.854	130.683	127.33	107.803	111.621	103.39	118.625			
2/6/2007	17:30	132.873	130.7	127.349	107.823	111.638	103.411	118.623			
2/6/2007	18:00	132.893	130.724	127.367	107.842	111.661	103.43	118.621			
2/6/2007	18:30	132.916	130.743	127.39	107.866	111.683	103.454	118.617			
2/6/2007	19:00	132.933	130.762	127.404	107.882	111.701	103.473	118.61			
2/6/2007	19:30	132.937	130.784	127.409	107.884	111.701	103.473	118.604			
2/6/2007	20:00	132.937	130.773	127.402	107.875	111.699	103.475	118.587			
2/6/2007	20:30	132.925	130.767	127.4	107.872	111.689	103.463	118.578			
2/6/2007	21:00	132.922	130.756	127.397	107.872	111.687	103.459	118.565			
2/6/2007	21:30	132.92	130.749	127.393	107.866	111.685	103.456	118.555			
2/6/2007	22:00	132.922	130.771	127.395	107.868	111.685	103.461	118.54			
2/6/2007	22:30	132.918	130.76	127.388	107.863	111.682	103.456	118.529			
2/6/2007	23:00	132.906	130.752	127.381	107.854	111.674	103.444	118.518			
2/6/2007	23:30	132.906	130.743	127.376	107.849	111.67	103.447	118.504			
2/7/2007	0:00	132.891	130.738	127.365	107.839	111.655	103.43	118.495			
2/7/2007	0:30	132.895	130.728	127.372	107.844	111.659	103.435	118.484			
2/7/2007	1:00	132.893	130.775	127.372	107.842	111.659	103.433	118.471			
2/7/2007	1:30	132.891	130.765	127.372	107.844	111.653	103.43	118.456			
2/7/2007	2:00	132.899	130.752	127.374	107.847	111.664	103.44	118.442			
2/7/2007	2:30	132.893	130.745	127.37	107.842	111.655	103.433	118.435			
2/7/2007	3:00	132.897	130.737	127.372	107.842	111.664	103.44	118.422			
2/7/2007	3:30	132.899	130.788	127.372	107.842	111.664	103.44	118.412			
2/7/2007	4:00	132.893	130.773	127.37	107.841	111.657	103.433	118.401			
2/7/2007	4:30	132.883	130.764	127.356	107.827	111.643	103.419	118.39			
2/7/2007	5:00	132.868	130.754	127.344	107.813	111.63	103.404	118.38			
2/7/2007	5:30	132.856	130.743	127.33	107.801	111.619	103.393	118.369			
2/7/2007	6:00	132.848	130.734	127.321	107.792	111.611	103.388	118.36			
2/7/2007	6:30	132.842	130.724	127.312	107.782	111.605	103.378	118.349			
2/7/2007	7:00	132.833	130.715	127.309	107.78	111.594	103.369	118.341			
2/7/2007	7:30	132.829	130.709	127.307	107.778	111.59	103.367	118.332			
2/7/2007	8:00	134.596	132.387	128.452	108.297	111.927	103.822	118.76			
2/7/2007	8:30	134.759	132.551	128.589	108.409	112.059	103.958	118.888			
2/7/2007	9:00	134.843	132.617	128.665	108.477	112.139	104.041	118.942			
2/7/2007	9:30	134.87	132.656	128.7	108.506	112.165	104.069	118.972			
2/7/2007	10:00	134.895	132.68	128.721	108.53	112.188	104.091	118.993			
2/7/2007	10:30	134.92	132.697	128.744	108.551	112.213	104.121	119.006			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/7/2007	11:00	134.929	132.712	128.753	108.561	112.221	104.126	119.017			
2/7/2007	11:30	134.933	132.723	128.76	108.571	112.23	104.133	119.025			
2/7/2007	12:00	134.947	132.731	128.778	108.589	112.249	104.15	119.03			
2/7/2007	12:30	134.964	132.738	128.788	108.599	112.266	104.166	119.04			
2/7/2007	13:00	133.597	131.436	127.853	108.237	112.152	103.975	118.856			
2/7/2007	13:30	133.156	131.016	127.594	108.032	111.874	103.659	118.57			
2/7/2007	14:00	133.032	130.915	127.488	107.939	111.767	103.546	118.482			
2/7/2007	14:30	132.973	130.863	127.434	107.892	111.718	103.494	118.437			
2/7/2007	15:00	132.932	130.831	127.4	107.859	111.683	103.461	118.409			
2/7/2007	15:30	132.909	130.809	127.374	107.839	111.662	103.437	118.392			
2/7/2007	16:00	132.887	130.797	127.353	107.818	111.642	103.419	118.38			
2/7/2007	16:30	132.868	130.781	127.339	107.806	111.628	103.4	118.371			
2/7/2007	17:00	132.862	130.771	127.33	107.796	111.621	103.395	118.364			
2/7/2007	17:30	132.846	130.764	127.321	107.791	111.607	103.378	118.36			
2/7/2007	18:00	132.844	130.756	127.316	107.787	111.606	103.381	118.356			
2/7/2007	18:30	132.848	130.751	127.319	107.792	111.611	103.385	118.378			
2/7/2007	19:00	132.854	130.741	127.326	107.797	111.617	103.39	118.368			
2/7/2007	19:30	132.852	130.736	127.323	107.794	111.619	103.388	118.362			
2/7/2007	20:00	132.854	130.732	127.326	107.797	111.621	103.39	118.358			
2/7/2007	20:30	132.857	130.726	127.33	107.801	111.621	103.395	118.352			
2/7/2007	21:00	132.859	130.722	127.333	107.806	111.623	103.397	118.345			
2/7/2007	21:30	132.854	130.719	127.326	107.797	111.619	103.39	118.339			
2/7/2007	22:00	132.852	130.713	127.33	107.803	111.617	103.39	118.333			
2/7/2007	22:30	132.859	130.708	127.333	107.804	111.622	103.397	118.326			
2/7/2007	23:00	132.867	130.704	127.339	107.811	111.632	103.407	118.318			
2/7/2007	23:30	132.866	130.704	127.342	107.813	111.63	103.404	118.315			
2/8/2007	0:00	132.865	130.704	127.337	107.809	111.63	103.404	118.307			
2/8/2007	0:30	132.859	130.7	127.33	107.799	111.622	103.397	118.3			
2/8/2007	1:00	132.854	130.698	127.328	107.799	111.619	103.39	118.292			
2/8/2007	1:30	132.848	130.693	127.326	107.796	111.609	103.383	118.285			
2/8/2007	2:00	132.848	130.691	127.321	107.792	111.613	103.383	118.277			
2/8/2007	2:30	132.84	130.691	127.314	107.785	111.602	103.374	118.273			
2/8/2007	3:00	132.836	130.689	127.309	107.78	111.596	103.367	118.275			
2/8/2007	3:30	132.836	130.683	127.309	107.778	111.596	103.369	118.27			
2/8/2007	4:00	132.819	130.71	127.298	107.77	111.579	103.35	118.273			
2/8/2007	4:30	132.817	130.713	127.286	107.758	111.577	103.352	118.266			
2/8/2007	5:00	132.813	130.707	127.289	107.758	111.573	103.35	118.262			
2/8/2007	5:30	132.799	130.7	127.275	107.746	111.558	103.331	118.256			
2/8/2007	6:00	132.8	130.695	127.272	107.744	111.562	103.334	118.251			
2/8/2007	6:30	132.809	130.687	127.279	107.749	111.571	103.343	118.245			
2/8/2007	7:00	132.79	130.687	127.265	107.734	111.552	103.324	118.243			
2/8/2007	7:30	132.786	130.683	128.033	108.018	111.546	103.319	118.238			
2/8/2007	8:00	134.589	132.421	128.443	108.28	111.918	103.81	118.719			
2/8/2007	8:30	134.722	132.547	128.559	108.38	112.026	103.925	118.822			
2/8/2007	9:00	134.781	132.604	128.617	108.432	112.083	103.98	118.88			
2/8/2007	9:30	134.823	132.637	128.651	108.464	112.123	104.022	118.908			
2/8/2007	10:00	134.848	132.661	128.677	108.49	112.148	104.051	118.931			
2/8/2007	10:30	134.858	132.682	128.688	108.501	112.16	104.062	118.951			
2/8/2007	11:00	134.879	132.693	128.709	108.521	112.184	104.086	118.963			
2/8/2007	11:30	134.891	132.704	128.126	108.344	112.198	104.098	118.976			
2/8/2007	12:00	133.143	131.029	127.573	108.008	111.853	103.64	118.533			
2/8/2007	12:30	133.003	130.902	127.453	107.901	111.735	103.513	118.427			
2/8/2007	13:00	132.924	130.846	127.386	107.844	111.665	103.442	118.379			
2/8/2007	13:30	132.875	130.814	127.337	107.797	111.623	103.397	118.352			
2/8/2007	14:00	132.84	130.784	127.302	107.765	111.588	103.364	118.337			
2/8/2007	14:30	132.809	130.754	127.275	107.739	111.562	103.336	118.328			
2/8/2007	15:00	132.788	130.7	127.252	107.716	111.541	103.315	118.322			
2/8/2007	15:30	132.766	130.698	127.238	107.701	111.524	103.296	118.32			
2/8/2007	16:00	132.753	130.693	127.228	107.696	111.51	103.284	118.317			
2/8/2007	16:30	132.764	130.689	127.233	107.701	111.524	103.294	118.315			
2/8/2007	17:00	132.768	130.689	127.238	107.706	111.524	103.296	118.318			
2/8/2007	17:30	132.774	130.687	127.233	107.701	111.533	103.308	118.317			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/8/2007	18:00	132.749	130.689	127.221	107.691	111.508	103.282	118.32			
2/8/2007	18:30	132.759	130.685	127.233	107.704	111.52	103.291	118.311			
2/8/2007	19:00	132.766	130.683	127.242	107.711	111.529	103.301	118.311			
2/8/2007	19:30	132.77	130.683	127.24	107.711	111.533	103.305	118.313			
2/8/2007	20:00	132.78	130.68	127.252	107.723	111.544	103.317	118.311			
2/8/2007	20:30	132.782	130.681	127.254	107.725	111.548	103.317	118.315			
2/8/2007	21:00	132.776	130.678	127.252	107.723	111.539	103.315	118.315			
2/8/2007	21:30	132.774	130.68	127.245	107.716	111.537	103.31	118.313			
2/8/2007	22:00	132.778	130.676	127.249	107.722	111.539	103.312	118.322			
2/8/2007	22:30	132.786	130.672	127.256	107.728	111.55	103.324	118.32			
2/8/2007	23:00	132.78	130.674	127.256	107.73	111.544	103.317	118.32			
2/8/2007	23:30	132.786	130.67	127.254	107.727	111.55	103.322	118.317			
2/9/2007	0:00	132.788	130.67	127.261	107.734	111.552	103.324	118.315			
2/9/2007	0:30	132.782	130.67	127.256	107.727	111.545	103.317	118.311			
2/9/2007	1:00	132.786	130.665	127.261	107.734	111.55	103.319	118.307			
2/9/2007	1:30	132.79	130.661	127.265	107.739	111.556	103.329	118.313			
2/9/2007	2:00	132.8	130.661	127.275	107.747	111.564	103.336	118.309			
2/9/2007	2:30	132.8	130.659	127.277	107.749	111.564	103.336	118.303			
2/9/2007	3:00	132.809	130.655	127.286	107.758	111.575	103.345	118.298			
2/9/2007	3:30	132.806	130.655	127.284	107.753	111.569	103.343	118.294			
2/9/2007	4:00	132.803	130.653	127.277	107.746	111.565	103.341	118.287			
2/9/2007	4:30	132.798	130.65	127.268	107.737	111.56	103.334	118.283			
2/9/2007	5:00	132.784	130.65	127.259	107.728	111.546	103.319	118.277			
2/9/2007	5:30	132.773	130.646	127.247	107.72	111.537	103.312	118.273			
2/9/2007	6:00	132.771	130.644	127.249	107.718	111.537	103.31	118.268			
2/9/2007	6:30	132.771	130.642	127.247	107.718	111.533	103.305	118.273			
2/9/2007	7:00	132.772	130.64	127.242	107.711	111.533	103.308	118.27			
2/9/2007	7:30	132.763	130.637	127.238	107.71	111.527	103.301	118.266			
2/9/2007	8:00	134.542	132.323	128.519	108.275	111.878	103.782	118.69			
2/9/2007	8:30	134.73	132.493	128.677	108.404	112.036	103.942	118.831			
2/9/2007	9:00	134.817	132.572	128.76	108.478	112.11	104.02	118.921			
2/9/2007	9:30	134.87	132.622	128.813	108.527	112.162	104.069	118.959			
2/9/2007	10:00	134.922	132.725	128.864	108.576	112.211	104.124	118.982			
2/9/2007	10:30	134.957	132.747	128.889	108.601	112.249	104.159	119.019			
2/9/2007	11:00	134.976	132.764	128.915	108.623	112.261	104.173	119.03			
2/9/2007	11:30	134.99	132.777	128.917	108.623	112.276	104.19	119.042			
2/9/2007	12:00	134.984	132.788	128.917	108.625	112.274	104.185	119.051			
2/9/2007	12:30	134.992	132.796	128.92	108.625	112.28	104.194	119.059			
2/9/2007	13:00	134.99	132.798	128.927	108.635	112.284	104.194	119.096			
2/9/2007	13:30	134.988	132.809	128.922	108.63	112.28	104.192	119.104			
2/9/2007	14:00	133.302	131.214	127.698	108.113	111.979	103.772	118.69			
2/9/2007	14:30	133.075	131.014	127.515	107.954	111.796	103.579	118.527			
2/9/2007	15:00	132.984	130.917	127.439	107.892	111.72	103.496	118.456			
2/9/2007	15:30	132.932	130.874	127.397	107.854	111.68	103.452	118.422			
2/9/2007	16:00	132.909	130.846	127.374	107.837	111.659	103.43	118.401			
2/9/2007	16:30	132.884	130.827	127.356	107.82	111.638	103.409	118.388			
2/9/2007	17:00	132.875	130.812	127.344	107.811	111.63	103.4	118.379			
2/9/2007	17:30	132.874	130.797	127.346	107.815	111.634	103.407	118.369			
2/9/2007	18:00	132.875	130.788	127.346	107.816	111.634	103.404	118.365			
2/9/2007	18:30	132.881	130.78	127.349	107.818	111.642	103.411	118.36			
2/9/2007	19:00	132.875	130.775	127.344	107.813	111.636	103.407	118.354			
2/9/2007	19:30	132.873	130.767	127.337	107.808	111.636	103.409	118.42			
2/9/2007	20:00	132.866	130.758	127.339	107.809	111.63	103.4	118.398			
2/9/2007	20:30	132.883	130.747	127.356	107.825	111.647	103.416	118.388			
2/9/2007	21:00	132.883	130.745	127.356	107.828	111.647	103.419	118.384			
2/9/2007	21:30	132.856	130.747	127.333	107.801	111.619	103.39	118.38			
2/9/2007	22:00	132.85	130.736	127.321	107.792	111.613	103.385	118.373			
2/9/2007	22:30	132.844	130.73	127.319	107.789	111.607	103.378	118.367			
2/9/2007	23:00	132.835	130.724	127.319	107.791	111.598	103.369	118.362			
2/9/2007	23:30	132.856	130.717	127.333	107.803	111.621	103.39	118.354			
2/10/2007	0:00	132.842	130.717	127.312	107.782	111.606	103.376	118.352			
2/10/2007	0:30	132.852	130.704	127.337	107.809	111.621	103.39	118.343			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/10/2007	1:00	132.84	130.71	127.307	107.778	111.602	103.374	118.341			
2/10/2007	1:30	132.827	130.704	127.305	107.775	111.592	103.367	118.333			
2/10/2007	2:00	132.823	130.698	127.305	107.777	111.586	103.36	118.328			
2/10/2007	2:30	132.817	130.695	127.291	107.763	111.579	103.352	118.324			
2/10/2007	3:00	132.813	130.694	127.286	107.758	111.579	103.35	118.318			
2/10/2007	3:30	132.797	130.689	127.272	107.744	111.558	103.331	118.315			
2/10/2007	4:00	132.79	130.687	127.265	107.737	111.55	103.324	118.311			
2/10/2007	4:30	132.782	130.683	127.249	107.718	111.545	103.317	118.309			
2/10/2007	5:00	132.778	130.678	127.249	107.72	111.543	103.317	118.307			
2/10/2007	5:30	132.77	130.681	127.247	107.716	111.533	103.305	118.307			
2/10/2007	6:00	132.774	130.676	127.247	107.722	111.537	103.308	118.305			
2/10/2007	6:30	132.768	130.674	127.247	107.72	111.531	103.303	118.305			
2/10/2007	7:00	132.772	130.672	127.242	107.711	111.533	103.308	118.303			
2/10/2007	7:30	134.325	132.168	128.263	108.149	111.739	103.619	118.627			
2/10/2007	8:00	134.622	132.452	128.475	108.318	111.958	103.852	118.844			
2/10/2007	8:30	134.722	132.549	128.554	108.382	112.042	103.937	118.927			
2/10/2007	9:00	134.778	132.594	128.614	108.439	112.093	103.989	118.972			
2/10/2007	9:30	134.815	132.631	128.642	108.463	112.126	104.025	119			
2/10/2007	10:00	134.842	132.65	128.674	108.495	112.158	104.055	119.021			
2/10/2007	10:30	133.414	131.277	127.721	108.118	112.019	103.824	118.784			
2/10/2007	11:00	133.052	130.937	127.492	107.934	111.779	103.558	118.531			
2/10/2007	11:30	132.952	130.848	127.407	107.859	111.691	103.466	118.454			
2/10/2007	12:00	132.897	130.801	127.363	107.822	111.644	103.421	118.412			
2/10/2007	12:30	132.868	130.775	127.337	107.801	111.621	103.395	118.392			
2/10/2007	13:00	132.846	130.76	127.307	107.773	111.602	103.374	118.379			
2/10/2007	13:30	132.813	130.75	127.279	107.747	111.567	103.341	118.371			
2/10/2007	14:00		130.739	127.254	107.722	111.545	103.317	118.365			
2/10/2007	14:30		130.719	127.238	107.703	111.527	103.296	118.364			
2/10/2007	15:00		130.657	127.205	107.673	111.501	103.272	118.364			
2/10/2007	15:30		130.659	127.187	107.654	111.476	103.249	118.367			
2/10/2007	16:00		130.655	127.175	107.644	111.466	103.237	118.369			
2/10/2007	16:30		130.657	127.178	107.647	111.466	103.237	118.371			
2/10/2007	17:00		130.655	127.171	107.639	111.463	103.232	118.375			
2/10/2007	17:30		130.651	127.164	107.634	111.453	103.225	118.38			
2/10/2007	18:00		130.608	127.161	107.63	111.449	103.218	118.382			
2/10/2007	18:30		130.609	127.168	107.639	111.459	103.227	118.384			
2/10/2007	19:00		130.614	127.173	107.646	111.463	103.232	118.39			
2/10/2007	19:30		130.616	127.18	107.649	111.468	103.239	118.377			
2/10/2007	20:00		130.618	127.182	107.654	111.474	103.244	118.38			
2/10/2007	20:30		130.623	127.182	107.653	111.474	103.244	118.384			
2/10/2007	21:00		130.624	127.173	107.644	111.468	103.237	118.386			
2/10/2007	21:30		130.627	127.164	107.635	111.457	103.227	118.382			
2/10/2007	22:00		130.627	127.164	107.635	111.457	103.225	118.382			
2/10/2007	22:30		130.627	127.166	107.639	111.457	103.23	118.386			
2/10/2007	23:00		130.627	127.171	107.642	111.463	103.232	118.39			
2/10/2007	23:30		130.627	127.166	107.639	111.463	103.235	118.392			
2/11/2007	0:00		130.629	127.166	107.635	111.459	103.23	118.394			
2/11/2007	0:30		130.629	127.161	107.632	111.451	103.223	118.394			
2/11/2007	1:00		130.629	127.157	107.63	111.449	103.22	118.395			
2/11/2007	1:30		130.627	127.159	107.632	111.447	103.218	118.397			
2/11/2007	2:00		130.623	127.175	107.649	111.468	103.237	118.401			
2/11/2007	2:30		130.629	127.173	107.644	111.465	103.232	118.386			
2/11/2007	3:00		130.629	127.171	107.646	111.461	103.23	118.386			
2/11/2007	3:30		130.629	127.164	107.635	111.457	103.225	118.388			
2/11/2007	4:00		130.629	127.143	107.615	111.438	103.206	118.386			
2/11/2007	4:30		130.622	127.141	107.611	111.428	103.197	118.362			
2/11/2007	5:00		130.62	127.134	107.604	111.428	103.199	118.364			
2/11/2007	5:30		130.568	127.136	107.608	111.419	103.19	118.362			
2/11/2007	6:00		130.571	127.131	107.604	111.419	103.19	118.362			
2/11/2007	6:30		130.575	127.134	107.604	111.423	103.194	118.364			
2/11/2007	7:00		130.577	127.131	107.601	111.421	103.192	118.365			
2/11/2007	7:30		130.582	127.117	107.587	111.411	103.18	118.358			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/11/2007	8:00		130.582	127.115	107.585	111.404	103.173	118.339			
2/11/2007	8:30		130.582	127.629	107.796	111.411	103.178	118.343			
2/11/2007	9:00		132.325	128.441	108.184	111.796	103.697	118.871			
2/11/2007	9:30		132.48	128.575	108.297	111.933	103.836	119.025			
2/11/2007	10:00		132.549	128.647	108.359	112	103.907	119.092			
2/11/2007	10:30		132.596	128.686	108.397	112.04	103.947	119.166			
2/11/2007	11:00		132.628	128.711	108.418	112.065	103.973	119.196			
2/11/2007	11:30		132.652	128.737	108.442	112.091	103.999	119.218			
2/11/2007	12:00		132.674	128.753	108.459	112.11	104.015	119.239			
2/11/2007	12:30		132.695	128.772	108.477	112.127	104.034	119.258			
2/11/2007	13:00		132.708	127.959	108.22	112.131	104.039	119.273			
2/11/2007	13:30		130.971	127.46	107.891	111.741	103.522	118.782			
2/11/2007	14:00		130.84	127.335	107.784	111.615	103.393	118.67			
2/11/2007	14:30		130.732	127.272	107.727	111.556	103.327	118.621			
2/11/2007	15:00		130.693	127.238	107.697	111.526	103.294	118.606			
2/11/2007	15:30		130.674	127.215	107.679	111.503	103.275	118.572			
2/11/2007	16:00		130.666	127.198	107.663	111.486	103.256	118.565			
2/11/2007	16:30		130.657	127.191	107.658	111.478	103.246	118.561			
2/11/2007	17:00		130.652	127.187	107.656	111.478	103.246	118.559			
2/11/2007	17:30		130.65	127.184	107.653	111.478	103.246	118.561			
2/11/2007	18:00		130.648	127.175	107.642	111.466	103.237	118.561			
2/11/2007	18:30		130.646	127.178	107.649	111.476	103.244	118.561			
2/11/2007	19:00		130.644	127.191	107.663	111.482	103.251	118.563			
2/11/2007	19:30		130.642	127.205	107.675	111.495	103.265	118.565			
2/11/2007	20:00		130.642	127.212	107.685	111.506	103.279	118.568			
2/11/2007	20:30		130.642	127.224	107.699	111.518	103.284	118.548			
2/11/2007	21:00		130.639	127.235	107.708	111.535	103.303	118.546			
2/11/2007	21:30		130.642	127.231	107.704	111.524	103.291	118.546			
2/11/2007	22:00		130.642	127.231	107.704	111.524	103.294	118.546			
2/11/2007	22:30		130.64	127.228	107.701	111.524	103.294	118.542			
2/11/2007	23:00		130.637	127.224	107.696	111.516	103.284	118.54			
2/11/2007	23:30		130.636	127.221	107.692	111.514	103.282	118.54			
2/12/2007	0:00		130.633	127.219	107.689	111.51	103.282	118.538			
2/12/2007	0:30		130.633	127.21	107.68	111.501	103.27	118.534			
2/12/2007	1:00		130.631	127.203	107.675	111.495	103.265	118.533			
2/12/2007	1:30		130.629	127.201	107.672	111.493	103.263	118.529			
2/12/2007	2:00		130.627	127.191	107.663	111.486	103.256	118.527			
2/12/2007	2:30		130.622	127.194	107.665	111.487	103.256	118.525			
2/12/2007	3:00		130.62	127.194	107.666	111.487	103.256	118.523			
2/12/2007	3:30		130.62	127.194	107.666	111.489	103.258	118.523			
2/12/2007	4:00		130.618	127.194	107.665	111.486	103.256	118.525			
2/12/2007	4:30		130.618	127.182	107.654	111.476	103.246	118.523			
2/12/2007	5:00		130.616	127.18	107.651	111.47	103.239	118.522			
2/12/2007	5:30		130.614	127.178	107.651	111.472	103.242	118.529			
2/12/2007	6:00		130.612	127.18	107.653	111.472	103.244	118.525			
2/12/2007	6:30		130.61	127.189	107.663	111.48	103.253	118.525			
2/12/2007	7:00		132.26	128.306	108.163	111.777	103.661	118.929			
2/12/2007	7:30		132.461	128.48	108.304	111.95	103.843	119.092			
2/12/2007	8:00		132.544	128.547	108.361	112.015	103.911	119.196			
2/12/2007	8:30		132.592	128.593	108.402	112.057	103.954	119.235			
2/12/2007	9:00		132.622	128.64	108.445	112.105	104.001	119.263			
2/12/2007	9:30		132.641	128.665	108.471	112.129	104.027	119.282			
2/12/2007	10:00		132.659	128.684	108.489	112.152	104.051	119.329			
2/12/2007	10:30		132.674	128.691	108.495	112.16	104.06	119.342			
2/12/2007	11:00		132.682	128.704	108.513	112.177	104.079	119.352			
2/12/2007	11:30		132.691	128.709	108.521	112.19	104.088	119.359			
2/12/2007	12:00		132.702	128.711	108.523	112.194	104.091	119.367			
2/12/2007	12:30		132.706	128.711	108.525	112.192	104.091	119.374			
2/12/2007	13:00		132.717	128.718	108.53	112.202	104.095	119.391			
2/12/2007	13:30		131.206	127.686	108.096	111.977	103.772	119.068			
2/12/2007	14:00		130.96	127.494	107.94	111.783	103.56	118.874			
2/12/2007	14:30		130.872	127.411	107.865	111.697	103.468	118.797			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/12/2007	15:00		130.825	127.363	107.825	111.655	103.426	118.77			
2/12/2007	15:30		130.792	127.344	107.813	111.636	103.407	118.738			
2/12/2007	16:00		130.775	127.33	107.796	111.626	103.393	118.723			
2/12/2007	16:30		130.762	127.314	107.785	111.609	103.378	118.715			
2/12/2007	17:00		130.751	127.3	107.77	111.598	103.367	118.705			
2/12/2007	17:30		130.741	127.296	107.768	111.59	103.36	118.698			
2/12/2007	18:00		130.732	127.302	107.775	111.598	103.367	118.692			
2/12/2007	18:30		130.724	127.305	107.777	111.598	103.367	118.687			
2/12/2007	19:00		130.719	127.302	107.777	111.6	103.369	118.681			
2/12/2007	19:30		130.71	127.323	107.797	111.619	103.388	118.675			
2/12/2007	20:00		130.706	127.33	107.804	111.632	103.4	118.668			
2/12/2007	20:30		130.698	127.342	107.818	111.642	103.409	118.658			
2/12/2007	21:00		130.698	127.344	107.818	111.644	103.414	118.651			
2/12/2007	21:30		130.693	127.335	107.809	111.636	103.402	118.642			
2/12/2007	22:00		130.689	127.335	107.811	111.632	103.402	118.632			
2/12/2007	22:30		130.71	127.342	107.816	111.638	103.409	118.621			
2/12/2007	23:00		130.732	127.342	107.816	111.64	103.407	118.611			
2/12/2007	23:30		130.723	127.335	107.809	111.636	103.409	118.604			
2/13/2007	0:00		130.715	127.335	107.809	111.634	103.404	118.591			
2/13/2007	0:30		130.708	127.333	107.804	111.628	103.4	118.587			
2/13/2007	1:00		130.7	127.335	107.809	111.63	103.402	118.576			
2/13/2007	1:30		130.694	127.333	107.806	111.628	103.4	118.566			
2/13/2007	2:00		130.687	127.328	107.803	111.626	103.397	118.557			
2/13/2007	2:30		130.683	127.326	107.799	111.623	103.395	118.548			
2/13/2007	3:00		130.674	127.328	107.801	111.623	103.393	118.538			
2/13/2007	3:30		130.706	127.335	107.806	111.626	103.397	118.527			
2/13/2007	4:00		130.698	127.335	107.808	111.63	103.4	118.518			
2/13/2007	4:30		130.691	127.339	107.811	111.634	103.402	118.508			
2/13/2007	5:00		130.685	127.335	107.808	111.632	103.4	118.501			
2/13/2007	5:30		130.683	127.326	107.797	111.623	103.395	118.491			
2/13/2007	6:00		130.728	127.339	107.813	111.63	103.402	118.478			
2/13/2007	6:30		130.715	127.344	107.818	111.64	103.409	118.469			
2/13/2007	7:00		130.709	127.344	107.816	111.638	103.409	118.457			
2/13/2007	7:30		130.7	127.346	107.818	111.634	103.409	118.446			
2/13/2007	8:00		132.335	128.547	108.321	111.916	103.81	118.829			
2/13/2007	8:30		132.564	128.741	108.48	112.108	104.015	119.01			
2/13/2007	9:00		132.645	128.825	108.551	112.196	104.105	119.079			
2/13/2007	9:30		132.688	128.88	108.594	112.242	104.152	119.113			
2/13/2007	10:00		132.712	128.913	108.628	112.276	104.187	119.128			
2/13/2007	10:30		132.734	128.94	108.654	112.301	104.213	119.139			
2/13/2007	11:00		131.604	127.939	108.299	112.253	104.112	119.01			
2/13/2007	11:30		131.016	127.645	108.082	111.925	103.709	118.627			
2/13/2007	12:00		130.906	127.555	108.006	111.836	103.614	118.527			
2/13/2007	12:30		130.853	127.511	107.97	111.796	103.569	118.548			
2/13/2007	13:00		130.883	127.471	107.934	111.767	103.541	118.516			
2/13/2007	13:30		130.855	127.444	107.906	111.733	103.508	118.497			
2/13/2007	14:00		130.836	127.411	107.875	111.701	103.47	118.476			
2/13/2007	14:30		130.816	127.39	107.858	111.682	103.454	118.459			
2/13/2007	15:00		130.799	127.374	107.841	111.665	103.437	118.444			
2/13/2007	15:30		130.781	127.363	107.83	111.655	103.428	118.433			
2/13/2007	16:00		130.769	127.351	107.818	111.644	103.419	118.42			
2/13/2007	16:30		130.756	127.351	107.82	111.638	103.414	118.41			
2/13/2007	17:00		130.745	127.353	107.823	111.642	103.414	118.401			
2/13/2007	17:30		130.736	127.342	107.813	111.632	103.407	118.394			
2/13/2007	18:00		130.73	127.339	107.808	111.63	103.4	118.382			
2/13/2007	18:30		130.719	127.337	107.808	111.626	103.397	118.373			
2/13/2007	19:00		130.711	127.342	107.815	111.634	103.407	118.365			
2/13/2007	19:30		130.704	127.344	107.816	111.64	103.409	118.358			
2/13/2007	20:00		130.7	127.356	107.827	111.647	103.419	118.347			
2/13/2007	20:30		130.7	127.353	107.825	111.642	103.416	118.339			
2/13/2007	21:00		130.696	127.353	107.823	111.642	103.416	118.307			
2/13/2007	21:30		130.693	127.346	107.816	111.636	103.409	118.3			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/13/2007	22:00		130.689	127.335	107.804	111.625	103.397	118.288			
2/13/2007	22:30		130.685	127.328	107.797	111.619	103.39	118.281			
2/13/2007	23:00		130.719	127.328	107.797	111.615	103.388	118.271			
2/13/2007	23:30		130.71	127.321	107.791	111.609	103.383	118.262			
2/14/2007	0:00		130.702	127.316	107.789	111.607	103.378	118.255			
2/14/2007	0:30		130.693	127.314	107.785	111.604	103.374	118.253			
2/14/2007	1:00		130.687	127.319	107.792	111.607	103.378	118.245			
2/14/2007	1:30		130.68	127.316	107.787	111.607	103.378	118.24			
2/14/2007	2:00		130.676	127.307	107.777	111.598	103.367	118.232			
2/14/2007	2:30		130.667	127.307	107.777	111.594	103.364	118.223			
2/14/2007	3:00		130.663	127.3	107.772	111.592	103.362	118.215			
2/14/2007	3:30		130.659	127.291	107.76	111.582	103.352	118.208			
2/14/2007	4:00		130.655	127.282	107.751	111.569	103.343	118.2			
2/14/2007	4:30		130.651	127.268	107.735	111.56	103.327	118.196			
2/14/2007	5:00		130.644	127.254	107.723	111.544	103.312	118.189			
2/14/2007	5:30		130.639	127.249	107.716	111.533	103.303	118.185			
2/14/2007	6:00		130.635	127.242	107.713	111.533	103.303	118.179			
2/14/2007	6:30		130.629	127.245	107.715	111.535	103.303	118.174			
2/14/2007	7:00		130.627	127.252	107.722	111.539	103.308	118.129			
2/14/2007	7:30		130.624	127.252	107.722	111.539	103.308	118.125			
2/14/2007	8:00		131.591	128.142	108.073	111.569	103.341	118.185			
2/14/2007	8:30		132.398	128.466	108.297	111.935	103.827	118.645			
2/14/2007	9:00		132.512	128.577	108.397	112.044	103.94	118.743			
2/14/2007	9:30		132.57	128.637	108.451	112.105	103.999	118.79			
2/14/2007	10:00		132.611	128.674	108.485	112.143	104.036	118.82			
2/14/2007	10:30		132.633	128.695	108.502	112.163	104.06	118.865			
2/14/2007	11:00		132.652	128.711	108.52	112.181	104.079	118.876			
2/14/2007	11:30		132.665	128.723	108.53	112.194	104.088	118.886			
2/14/2007	12:00		132.676	128.732	108.542	112.205	104.1	118.893			
2/14/2007	12:30		132.689	128.737	108.547	112.209	104.105	118.901			
2/14/2007	13:00		132.699	128.732	108.542	112.209	104.105	118.906			
2/14/2007	13:30		131.119	127.654	108.07	111.937	103.721	118.54			
2/14/2007	14:00		130.92	127.487	107.932	111.769	103.546	118.377			
2/14/2007	14:30		130.844	127.411	107.865	111.695	103.468	118.496			
2/14/2007	15:00		130.799	127.37	107.828	111.653	103.426	118.432			
2/14/2007	15:30		130.773	127.337	107.801	111.628	103.395	118.407			
2/14/2007	16:00		130.754	127.318	107.785	111.607	103.378	118.394			
2/14/2007	16:30		130.743	127.305	107.773	111.598	103.364	118.384			
2/14/2007	17:00		130.732	127.305	107.772	111.592	103.36	118.377			
2/14/2007	17:30		130.726	127.296	107.765	111.588	103.355	118.373			
2/14/2007	18:00		130.721	127.289	107.758	111.583	103.35	118.369			
2/14/2007	18:30		130.715	127.284	107.754	111.573	103.341	118.365			
2/14/2007	19:00		130.713	127.289	107.758	111.579	103.348	118.362			
2/14/2007	19:30		130.708	127.291	107.763	111.583	103.35	118.362			
2/14/2007	20:00		130.704	127.3	107.77	111.59	103.357	118.356			
2/14/2007	20:30		130.7	127.302	107.775	111.594	103.362	118.352			
2/14/2007	21:00		130.695	127.302	107.77	111.594	103.364	118.349			
2/14/2007	21:30		130.691	127.298	107.768	111.59	103.355	118.343			
2/14/2007	22:00		130.687	127.296	107.766	111.586	103.355	118.339			
2/14/2007	22:30		130.683	127.293	107.763	111.584	103.352	118.333			
2/14/2007	23:00		130.676	127.293	107.763	111.585	103.352	118.326			
2/14/2007	23:30		130.674	127.291	107.761	111.579	103.348	118.322			
2/15/2007	0:00		130.67	127.289	107.76	111.579	103.345	118.315			
2/15/2007	0:30		130.665	127.282	107.753	111.571	103.343	118.311			
2/15/2007	1:00		130.661	127.275	107.747	111.567	103.336	118.305			
2/15/2007	1:30		130.657	127.272	107.744	111.563	103.331	118.3			
2/15/2007	2:00		130.652	127.268	107.741	111.56	103.329	118.294			
2/15/2007	2:30		130.65	127.259	107.732	111.554	103.322	118.288			
2/15/2007	3:00		130.646	127.252	107.725	111.545	103.31	118.285			
2/15/2007	3:30		130.642	127.247	107.718	111.541	103.308	118.281			
2/15/2007	4:00		130.64	127.242	107.715	111.535	103.301	118.277			
2/15/2007	4:30		130.637	127.226	107.697	111.518	103.286	118.275			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/15/2007	5:00		130.636	127.215	107.687	111.51	103.277	118.273			
2/15/2007	5:30		130.633	127.212	107.685	111.504	103.268	118.271			
2/15/2007	6:00		130.631	127.217	107.691	111.506	103.277	118.27			
2/15/2007	6:30		130.629	127.215	107.687	111.51	103.275	118.27			
2/15/2007	7:00		130.627	127.219	107.691	111.512	103.279	118.268			
2/15/2007	7:30		130.627	127.215	107.687	111.504	103.275	118.268			
2/15/2007	8:00		132.316	128.499	108.254	111.862	103.76	118.739			
2/15/2007	8:30		132.49	128.649	108.377	112.007	103.911	118.88			
2/15/2007	9:00		132.568	128.732	108.452	112.091	103.996	118.942			
2/15/2007	9:30		132.611	128.783	108.499	112.141	104.046	118.982			
2/15/2007	10:00		132.643	128.82	108.53	112.175	104.081	119.006			
2/15/2007	10:30		132.667	128.841	108.549	112.2	104.107	119.023			
2/15/2007	11:00		132.684	128.864	108.573	112.217	104.126	119.036			
2/15/2007	11:30		132.699	128.103	108.339	112.236	104.145	119.047			
2/15/2007	12:00		130.997	127.592	108.023	111.87	103.652	118.576			
2/15/2007	12:30		130.866	127.481	107.93	111.764	103.537	118.461			
2/15/2007	13:00		130.805	127.418	107.875	111.706	103.478	118.405			
2/15/2007	13:30		130.771	127.374	107.835	111.666	103.435	118.377			
2/15/2007	14:00		130.749	127.346	107.809	111.638	103.407	118.354			
2/15/2007	14:30		130.734	127.321	107.787	111.611	103.381	118.341			
2/15/2007	15:00		130.721	127.302	107.77	111.59	103.36	118.33			
2/15/2007	15:30		130.713	127.289	107.758	111.581	103.348	118.322			
2/15/2007	16:00		130.704	127.279	107.747	111.569	103.338	118.317			
2/15/2007	16:30		130.698	127.275	107.742	111.562	103.329	118.313			
2/15/2007	17:00		130.691	127.268	107.737	111.558	103.324	118.309			
2/15/2007	17:30		130.687	127.254	107.723	111.552	103.317	118.305			
2/15/2007	18:00		130.676	127.245	107.715	111.529	103.298	118.305			
2/15/2007	18:30		130.674	127.245	107.713	111.533	103.298	118.303			
2/15/2007	19:00		130.674	127.235	107.703	111.527	103.294	118.303			
2/15/2007	19:30		130.67	127.226	107.697	111.516	103.282	118.303			
2/15/2007	20:00		130.665	127.226	107.696	111.518	103.284	118.302			
2/15/2007	20:30		130.666	127.219	107.691	111.516	103.282	118.302			
2/15/2007	21:00		130.659	127.215	107.682	111.51	103.275	118.302			
2/15/2007	21:30		130.657	127.196	107.663	111.487	103.251	118.305			
2/15/2007	22:00		130.65	127.18	107.649	111.47	103.237	118.305			
2/15/2007	22:30		130.646	127.175	107.646	111.464	103.227	118.307			
2/15/2007	23:00		130.644	127.159	107.629	111.455	103.218	118.311			
2/15/2007	23:30		130.639	127.157	107.629	111.445	103.209	118.313			
2/16/2007	0:00		130.635	127.154	107.623	111.443	103.209	118.315			
2/16/2007	0:30		130.635	127.145	107.615	111.436	103.199	118.318			
2/16/2007	1:00		130.633	127.136	107.606	111.426	103.19	118.324			
2/16/2007	1:30		130.586	127.108	107.577	111.407	103.169	118.332			
2/16/2007	2:00		130.59	127.087	107.554	111.379	103.14	118.335			
2/16/2007	2:30		130.528	127.071	107.541	111.364	103.124	118.341			
2/16/2007	3:00		130.519	127.06	107.527	111.35	103.112	118.345			
2/16/2007	3:30		130.502	127.039	107.506	111.339	103.1	118.347			
2/16/2007	4:00		130.487	127.025	107.496	111.322	103.084	118.349			
2/16/2007	4:30		130.467	127.013	107.485	111.305	103.065	118.356			
2/16/2007	5:00		130.45	126.988	107.456	111.289	103.051	118.36			
2/16/2007	5:30		130.42	126.96	107.43	111.257	103.018	118.356			
2/16/2007	6:00		130.392	126.939	107.408	111.238	102.999	118.35			
2/16/2007	6:30		130.373	126.921	107.391	111.221	102.977	118.36			
2/16/2007	7:00		130.355	126.907	107.375	111.202	102.959	118.36			
2/16/2007	7:30		130.34	126.898	107.373	111.192	102.952	118.365			
2/16/2007	8:00		132.066	128.066	107.906	111.533	103.409	118.767			
2/16/2007	8:30		132.245	128.191	108.006	111.659	103.541	118.876			
2/16/2007	9:00		132.329	128.249	108.058	111.716	103.6	118.989			
2/16/2007	9:30		132.383	128.295	108.096	111.773	103.654	119.042			
2/16/2007	10:00		132.387	128.316	108.118	111.777	103.664	119.089			
2/16/2007	10:30		132.42	128.332	108.134	111.796	103.68	119.13			
2/16/2007	11:00		132.374	128.33	108.132	111.798	103.685	119.162			
2/16/2007	11:30		132.381	128.344	108.144	111.815	103.697	119.192			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/16/2007	12:00		132.394	128.353	108.158	111.828	103.713	119.22			
2/16/2007	12:30		132.4	128.369	108.178	111.84	103.72	119.209			
2/16/2007	13:00		132.43	128.392	108.199	111.872	103.756	119.233			
2/16/2007	13:30		132.437	128.408	108.218	111.884	103.768	119.26			
2/16/2007	14:00		130.982	127.404	107.803	111.705	103.489	119.036			
2/16/2007	14:30		130.685	127.203	107.647	111.495	103.256	118.816			
2/16/2007	15:00		130.59	127.129	107.582	111.419	103.173	118.747			
2/16/2007	15:30		130.553	127.097	107.558	111.39	103.145	118.72			
2/16/2007	16:00		130.545	127.094	107.561	111.388	103.14	118.711			
2/16/2007	16:30		130.545	127.09	107.558	111.388	103.14	118.707			
2/16/2007	17:00		130.536	127.085	107.554	111.383	103.136	118.709			
2/16/2007	17:30		130.538	127.087	107.558	111.386	103.143	118.713			
2/16/2007	18:00		130.536	127.085	107.556	111.386	103.143	118.717			
2/16/2007	18:30		130.543	127.094	107.568	111.394	103.15	118.72			
2/16/2007	19:00		130.549	127.101	107.577	111.402	103.154	118.728			
2/16/2007	19:30		130.562	127.12	107.592	111.417	103.171	118.734			
2/16/2007	20:00		130.577	127.131	107.608	111.43	103.185	118.737			
2/16/2007	20:30		130.595	127.152	107.625	111.451	103.204	118.739			
2/16/2007	21:00		130.609	127.173	107.644	111.468	103.225	118.745			
2/16/2007	21:30		130.624	127.189	107.661	111.486	103.239	118.747			
2/16/2007	22:00		130.648	127.221	107.692	111.512	103.268	118.747			
2/16/2007	22:30		130.683	127.252	107.728	111.55	103.31	118.749			
2/16/2007	23:00		130.706	127.277	107.754	111.577	103.334	118.749			
2/16/2007	23:30		130.708	127.3	107.775	111.598	103.355	118.745			
2/17/2007	0:00		130.751	127.328	107.806	111.632	103.388	118.737			
2/17/2007	0:30		130.741	127.342	107.815	111.642	103.4	118.73			
2/17/2007	1:00		130.732	127.358	107.832	111.655	103.414	118.719			
2/17/2007	1:30		130.749	127.379	107.854	111.678	103.433	118.705			
2/17/2007	2:00		130.738	127.395	107.87	111.695	103.452	118.69			
2/17/2007	2:30		130.728	127.395	107.872	111.697	103.459	118.677			
2/17/2007	3:00		130.738	127.4	107.875	111.699	103.461	118.662			
2/17/2007	3:30		130.749	127.402	107.875	111.699	103.461	118.645			
2/17/2007	4:00		130.732	127.407	107.882	111.702	103.463	118.628			
2/17/2007	4:30		130.75	127.402	107.878	111.703	103.466	118.611			
2/17/2007	5:00		130.771	127.414	107.889	111.714	103.475	118.596			
2/17/2007	5:30		130.756	127.416	107.887	111.714	103.475	118.581			
2/17/2007	6:00		130.745	127.411	107.885	111.706	103.466	118.566			
2/17/2007	6:30		130.778	127.404	107.877	111.702	103.461	118.549			
2/17/2007	7:00		130.762	127.404	107.875	111.697	103.456	118.533			
2/17/2007	7:30		130.747	127.409	107.884	111.704	103.468	118.516			
2/17/2007	8:00		130.739	127.409	107.884	111.703	103.463	118.501			
2/17/2007	8:30		132.144	128.508	108.318	111.861	103.73	118.752			
2/17/2007	9:00		132.555	128.781	108.52	112.144	104.041	119.021			
2/17/2007	9:30		132.656	128.88	108.602	112.244	104.142	119.102			
2/17/2007	10:00		132.773	128.933	108.652	112.293	104.194	119.137			
2/17/2007	10:30		132.794	128.977	108.69	112.333	104.235	119.154			
2/17/2007	11:00		132.805	129.01	108.72	112.367	104.27	119.164			
2/17/2007	11:30		132.826	129.024	108.733	112.385	104.286	119.237			
2/17/2007	12:00		132.831	129.04	108.747	112.398	104.301	119.239			
2/17/2007	12:30		132.839	129.051	108.761	112.407	104.308	119.241			
2/17/2007	13:00		132.908	129.058	108.764	112.415	104.317	119.241			
2/17/2007	13:30		131.285	127.828	108.242	112.11	103.89	118.816			
2/17/2007	14:00		131.079	127.663	108.106	111.945	103.713	118.647			
2/17/2007	14:30		130.992	127.578	108.032	111.861	103.628	118.568			
2/17/2007	15:00		130.941	127.522	107.98	111.807	103.569	118.525			
2/17/2007	15:30		130.902	127.483	107.946	111.767	103.529	118.491			
2/17/2007	16:00		130.872	127.462	107.927	111.752	103.513	118.465			
2/17/2007	16:30		130.848	127.441	107.906	111.735	103.494	118.446			
2/17/2007	17:00		130.829	127.425	107.891	111.71	103.473	118.429			
2/17/2007	17:30		130.812	127.407	107.877	111.701	103.461	118.414			
2/17/2007	18:00		130.797	127.386	107.859	111.684	103.444	118.401			
2/17/2007	18:30		130.784	127.37	107.851	111.672	103.43	118.388			

TABLE S3.2 (Cont.)

		Depth below Top of Casing (ft)									
Date	Time	MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/17/2007	19:00		130.771	127.351	107.842	111.666	103.428	118.375			
2/17/2007	19:30		130.762	127.356	107.827	111.649	103.409	118.367			
2/17/2007	20:00		130.749	127.342	107.811	111.636	103.397	118.356			
2/17/2007	20:30		130.738	127.337	107.809	111.63	103.39	118.347			
2/17/2007	21:00		130.73	127.333	107.803	111.628	103.385	118.339			
2/17/2007	21:30		130.722	127.326	107.796	111.617	103.376	118.33			
2/17/2007	22:00		130.715	127.323	107.792	111.611	103.371	118.322			
2/17/2007	22:30		130.708	127.321	107.787	111.613	103.374	118.315			
2/17/2007	23:00		130.704	127.307	107.778	111.602	103.357	118.309			
2/17/2007	23:30		130.698	127.3	107.766	111.592	103.35	118.303			
2/18/2007	0:00		130.691	127.286	107.754	111.573	103.331	118.298			
2/18/2007	0:30		130.683	127.279	107.749	111.567	103.327	118.29			
2/18/2007	1:00		130.679	127.268	107.735	111.556	103.315	118.335			
2/18/2007	1:30		130.674	127.263	107.73	111.55	103.308	118.332			
2/18/2007	2:00		130.668	127.254	107.723	111.544	103.303	118.326			
2/18/2007	2:30		130.663	127.247	107.716	111.537	103.298	118.322			
2/18/2007	3:00		130.659	127.24	107.708	111.531	103.289	118.318			
2/18/2007	3:30		130.655	127.226	107.696	111.52	103.282	118.319			
2/18/2007	4:00		130.648	127.221	107.689	111.51	103.268	118.317			
2/18/2007	4:30		130.642	127.198	107.666	111.495	103.256	118.315			
2/18/2007	5:00		130.631	127.182	107.653	111.472	103.232	118.313			
2/18/2007	5:30		130.627	127.171	107.639	111.462	103.223	118.313			
2/18/2007	6:00		130.624	127.175	107.646	111.465	103.225	118.313			
2/18/2007	6:30		130.62	127.168	107.637	111.459	103.218	118.315			
2/18/2007	7:00		130.618	127.157	107.629	111.451	103.209	118.317			
2/18/2007	7:30		130.616	127.147	107.62	111.438	103.199	118.318			
2/18/2007	8:00		130.614	127.141	107.608	111.432	103.19	118.322			
2/18/2007	8:30		130.609	127.141	107.611	111.436	103.192	118.322			
2/18/2007	9:00		131.94	128.098	108.004	111.552	103.395	118.544			
2/18/2007	9:30		132.413	128.378	108.208	111.849	103.73	118.852			
2/18/2007	10:00		132.529	128.471	108.285	111.943	103.824	118.955			
2/18/2007	10:30		132.588	128.524	108.33	111.992	103.876	119.01			
2/18/2007	11:00		132.626	128.552	108.358	112.017	103.902	119.148			
2/18/2007	11:30		132.65	128.577	108.378	112.04	103.926	119.166			
2/18/2007	12:00		132.669	128.591	108.394	112.061	103.944	119.19			
2/18/2007	12:30		132.682	128.589	108.39	112.059	103.944	119.207			
2/18/2007	13:00		132.544	128.603	108.394	112.061	103.947	119.222			
2/18/2007	13:30		132.56	128.626	108.396	112.061	103.947	119.239			
2/18/2007	14:00		132.626	128.619	108.39	112.065	103.949	119.256			
2/18/2007	14:30		131.223	127.606	107.968	111.876	103.661	118.972			
2/18/2007	15:00		130.915	127.342	107.78	111.632	103.395	118.726			
2/18/2007	15:30		130.784	127.254	107.694	111.529	103.291	118.638			
2/18/2007	16:00		130.708	127.263	107.651	111.484	103.237	118.6			
2/18/2007	16:30		130.655	127.242	107.629	111.459	103.213	118.581			
2/18/2007	17:00		130.629	127.261	107.622	111.447	103.204	118.578			
2/18/2007	17:30		130.618	127.261	107.613	111.44	103.194	118.576			
2/18/2007	18:00		130.608	127.259	107.596	111.424	103.178	118.576			
2/18/2007	18:30		130.595	127.261	107.594	111.421	103.176	118.576			
2/18/2007	19:00		130.59	127.261	107.598	111.423	103.176	118.58			
2/18/2007	19:30		130.588	127.265	107.592	111.423	103.178	118.583			
2/18/2007	20:00		130.588	127.275	107.589	111.417	103.169	118.587			
2/18/2007	20:30		130.582	127.282	107.58	111.409	103.161	118.591			
2/18/2007	21:00		130.575	127.289	107.57	111.398	103.152	118.596			
2/18/2007	21:30		130.551	127.296	107.563	111.392	103.145	118.6			
2/18/2007	22:00		130.543	127.302	107.554	111.383	103.138	118.606			
2/18/2007	22:30		130.534	127.314	107.546	111.377	103.128	118.611			
2/18/2007	23:00		130.512	127.321	107.525	111.354	103.107	118.619			
2/18/2007	23:30		130.51	127.33	107.511	111.339	103.093	118.627			
2/19/2007	0:00		130.517	127.339	107.499	111.327	103.081	118.632			
2/19/2007	0:30		130.519	127.349	107.494	111.32	103.074	118.64			
2/19/2007	1:00		130.523	127.358	107.489	111.316	103.065	118.647			
2/19/2007	1:30		130.523	127.367	107.487	111.316	103.069	118.657			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/19/2007	2:00		130.525	127.376	107.479	111.307	103.065	118.662			
2/19/2007	2:30		130.519	127.386	107.473	111.301	103.053	118.673			
2/19/2007	3:00		130.512	127.395	107.468	111.297	103.051	118.681			
2/19/2007	3:30		130.515	127.407	107.461	111.291	103.044	118.69			
2/19/2007	4:00		130.448	127.418	107.451	111.276	103.029	118.702			
2/19/2007	4:30		130.441	127.427	107.448	111.272	103.025	118.709			
2/19/2007	5:00		130.444	127.436	107.454	111.278	103.027	118.717			
2/19/2007	5:30		130.45	127.441	107.467	111.287	103.041	118.504			
2/19/2007	6:00		130.459	127.451	107.473	111.297	103.046	118.516			
2/19/2007	6:30		130.465	127.46	107.48	111.305	103.053	118.516			
2/19/2007	7:00		130.478	127.467	107.498	111.318	103.072	118.523			
2/19/2007	7:30		130.506	127.474	107.529	111.352	103.105	118.533			
2/19/2007	8:00		132.195	128.61	108.071	111.686	103.565	119.006			
2/19/2007	8:30		132.381	128.76	108.204	111.84	103.725	119.167			
2/19/2007	9:00		132.469	128.846	108.278	111.924	103.812	119.252			
2/19/2007	9:30		132.516	128.892	108.321	111.969	103.857	119.303			
2/19/2007	10:00		132.562	128.929	108.371	112.019	103.909	119.338			
2/19/2007	10:30		132.598	128.961	108.401	112.055	103.947	119.368			
2/19/2007	11:00		132.639	128.973	108.442	112.097	103.989	119.391			
2/19/2007	11:30		132.674	128.991	108.47	112.126	104.018	119.41			
2/19/2007	12:00		132.691	128.975	108.483	112.141	104.034	119.429			
2/19/2007	12:30		132.714	128.922	108.516	112.175	104.065	119.461			
2/19/2007	13:00		132.727	129.012	108.527	112.183	104.074	119.472			
2/19/2007	13:30		132.736	129.031	108.54	112.198	104.093	119.483			
2/19/2007	14:00		132.744	129.038	108.554	112.209	104.102	119.494			
2/19/2007	14:30		132.746	128.182	108.278	112.23	104.124	119.502			
2/19/2007	15:00		131.04	127.786	108.009	111.87	103.633	119.004			
2/19/2007	15:30		130.904	127.67	107.92	111.76	103.518	118.891			
2/19/2007	16:00		130.84	127.606	107.873	111.708	103.466	118.833			
2/19/2007	16:30		130.799	127.571	107.854	111.686	103.44	118.797			
2/19/2007	17:00		130.799	127.543	107.842	111.672	103.426	118.775			
2/19/2007	17:30		130.775	127.522	107.842	111.676	103.428	118.756			
2/19/2007	18:00		130.76	127.506	107.841	111.67	103.423	118.741			
2/19/2007	18:30		130.754	127.49	107.841	111.668	103.423	118.726			
2/19/2007	19:00		130.747	127.476	107.837	111.666	103.423	118.713			
2/19/2007	19:30		130.738	127.462	107.839	111.668	103.421	118.702			
2/19/2007	20:00		130.73	127.448	107.842	111.672	103.426	118.688			
2/19/2007	20:30		130.726	127.437	107.828	111.657	103.411	118.677			
2/19/2007	21:00		130.719	127.423	107.82	111.647	103.4	118.664			
2/19/2007	21:30		130.711	127.411	107.811	111.636	103.39	118.653			
2/19/2007	22:00		130.704	127.4	107.809	111.634	103.388	118.643			
2/19/2007	22:30		130.698	127.393	107.799	111.628	103.381	118.632			
2/19/2007	23:00		130.691	127.383	107.794	111.621	103.374	118.623			
2/19/2007	23:30		130.685	127.372	107.782	111.609	103.362	118.611			
2/20/2007	0:00		130.678	127.365	107.773	111.606	103.357	118.602			
2/20/2007	0:30		130.674	127.353	107.756	111.581	103.334	118.593			
2/20/2007	1:00		130.663	127.344	107.758	111.582	103.334	118.583			
2/20/2007	1:30		130.665	127.344	107.728	111.558	103.31	118.578			
2/20/2007	2:00		130.652	127.328	107.739	111.556	103.315	118.566			
2/20/2007	2:30		130.646	127.321	107.744	111.567	103.319	118.559			
2/20/2007	3:00		130.644	127.319	107.744	111.571	103.324	118.555			
2/20/2007	3:30		130.637	127.309	107.746	111.567	103.319	118.546			
2/20/2007	4:00		130.637	127.3	107.741	111.55	103.303	118.538			
2/20/2007	4:30		130.631	127.296	107.725	111.526	103.279	118.527			
2/20/2007	5:00		130.624	127.289	107.722	111.544	103.301	118.523			
2/20/2007	5:30		130.623	127.284	107.703	111.525	103.279	118.514			
2/20/2007	6:00		130.618	127.279	107.694	111.516	103.27	118.506			
2/20/2007	6:30		130.616	127.277	107.66	111.489	103.242	118.501			
2/20/2007	7:00		130.603	127.268	107.675	111.495	103.251	118.491			
2/20/2007	7:30		130.603	127.268	107.682	111.508	103.26	118.491			
2/20/2007	8:00		132.185	128.327	108.158	111.767	103.631	118.874			
2/20/2007	8:30		132.415	128.503	108.308	111.96	103.833	119.055			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/20/2007	9:00		132.497	128.579	108.385	112.04	103.921	119.128			
2/20/2007	9:30		132.547	128.619	108.43	112.093	103.973	119.167			
2/20/2007	10:00		132.575	128.644	108.468	112.131	104.01	119.194			
2/20/2007	10:30		132.665	128.663	108.508	112.171	104.053	119.218			
2/20/2007	11:00		132.671	127.925	108.263	112.204	104.086	119.275			
2/20/2007	11:30		130.979	127.531	108.004	111.855	103.621	118.812			
2/20/2007	12:00		130.859	127.43	107.915	111.754	103.513	118.707			
2/20/2007	12:30		130.801	127.376	107.873	111.705	103.463	118.655			
2/20/2007	13:00		130.769	127.346	107.832	111.663	103.416	118.615			
2/20/2007	13:30		130.745	127.323	107.801	111.63	103.388	118.583			
2/20/2007	14:00		130.726	127.307	107.784	111.613	103.367	118.565			
2/20/2007	14:30		130.713	127.293	107.772	111.598	103.355	118.551			
2/20/2007	15:00		130.7	127.282	107.756	111.583	103.336	118.534			
2/20/2007	15:30		130.689	127.275	107.741	111.566	103.322	118.521			
2/20/2007	16:00		130.68	127.265	107.768	111.552	103.305	118.512			
2/20/2007	16:30		130.672	127.261	107.735	111.55	103.301	118.506			
2/20/2007	17:00		130.665	127.254	107.715	111.535	103.289	118.497			
2/20/2007	17:30		130.661	127.249	107.778	111.535	103.289	118.493			
2/20/2007	18:00		130.65	127.245	107.83	111.535	103.289	118.489			
2/20/2007	18:30		130.646	127.24	107.865	111.533	103.284	118.484			
2/20/2007	19:00		130.642	127.235	107.873	111.533	103.282	118.478			
2/20/2007	19:30		130.635	127.231	107.851	111.531	103.284	118.474			
2/20/2007	20:00		130.631	127.226	107.823	111.533	103.284	118.474			
2/20/2007	20:30		130.627	127.221	107.799	111.529	103.286	118.469			
2/20/2007	21:00		130.625	127.219	107.778	111.518	103.272	118.461			
2/20/2007	21:30		130.618	127.215	107.765	111.529	103.284	118.465			
2/20/2007	22:00		130.616	127.212	107.747	111.522	103.277	118.457			
2/20/2007	22:30		130.611	127.205	107.739	111.525	103.279	118.456			
2/20/2007	23:00		130.609	127.203	107.73	111.524	103.277	118.456			
2/20/2007	23:30		130.605	127.198	107.718	111.52	103.275	118.448			
2/21/2007	0:00		130.601	127.194	107.71	111.522	103.275	118.448			
2/21/2007	0:30		130.599	127.191	107.699	111.518	103.272	118.444			
2/21/2007	1:00		130.596	127.187	107.691	111.51	103.265	118.456			
2/21/2007	1:30		130.592	127.182	107.682	111.506	103.26	118.45			
2/21/2007	2:00		130.592	127.18	107.677	111.501	103.253	118.442			
2/21/2007	2:30		130.59	127.175	107.672	111.499	103.253	118.441			
2/21/2007	3:00		130.586	127.171	107.666	111.497	103.251	118.45			
2/21/2007	3:30		130.584	127.168	107.661	111.487	103.242	118.444			
2/21/2007	4:00		130.581	127.166	107.658	111.48	103.232	118.439			
2/21/2007	4:30		130.577	127.164	107.654	111.474	103.227	118.431			
2/21/2007	5:00		130.577	127.161	107.653	111.472	103.223	118.427			
2/21/2007	5:30		130.573	127.159	107.651	111.464	103.218	118.426			
2/21/2007	6:00		130.573	127.157	107.649	111.462	103.216	118.439			
2/21/2007	6:30		130.566	127.154	107.647	111.466	103.22	118.441			
2/21/2007	7:00		130.568	127.152	107.647	111.466	103.22	118.439			
2/21/2007	7:30		130.566	127.152	107.647	111.472	103.223	118.439			
2/21/2007	8:00		132.208	128.385	108.185	111.785	103.661	118.874			
2/21/2007	8:30		132.419	128.554	108.333	111.964	103.85	119.089			
2/21/2007	9:00		132.499	128.635	108.413	112.057	103.944	119.169			
2/21/2007	9:30		132.551	128.688	108.458	112.104	103.994	119.213			
2/21/2007	10:00		132.588	128.721	108.482	112.129	104.022	119.237			
2/21/2007	10:30		132.611	128.739	108.509	112.154	104.046	119.258			
2/21/2007	11:00		132.631	128.755	108.525	112.171	104.062	119.275			
2/21/2007	11:30		132.645	128.772	108.549	112.196	104.091	119.322			
2/21/2007	12:00		131.118	127.61	108.087	111.973	103.749	118.965			
2/21/2007	12:30		130.872	127.423	107.939	111.785	103.546	118.762			
2/21/2007	13:00		130.784	127.342	107.877	111.712	103.468	118.685			
2/21/2007	13:30		130.743	127.3	107.837	111.666	103.423	118.642			
2/21/2007	14:00		130.717	127.272	107.815	111.638	103.393	118.613			
2/21/2007	14:30		130.698	127.252	107.794	111.613	103.367	118.595			
2/21/2007	15:00		130.683	127.238	107.777	111.6	103.352	118.578			
2/21/2007	15:30		130.672	127.224	107.766	111.585	103.338	118.568			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/21/2007	16:00		130.659	127.212	107.773	111.594	103.348	118.555			
2/21/2007	16:30		130.657	127.203	107.78	111.604	103.355	118.546			
2/21/2007	17:00		130.713	127.189	107.792	111.609	103.362	118.536			
2/21/2007	17:30		130.7	127.182	107.803	111.625	103.376	118.523			
2/21/2007	18:00		130.689	127.171	107.804	111.628	103.381	118.586			
2/21/2007	18:30		130.683	127.161	107.803	111.632	103.385	118.57			
2/21/2007	19:00		130.741	127.15	107.796	111.64	103.393	118.557			
2/21/2007	19:30		130.726	127.141	107.792	111.642	103.397	118.557			
2/21/2007	20:00		130.715	127.127	107.78	111.645	103.4	118.546			
2/21/2007	20:30		130.706	127.115	107.768	111.649	103.404	118.536			
2/21/2007	21:00		130.758	127.101	107.754	111.662	103.419	118.531			
2/21/2007	21:30		130.745	127.09	107.742	111.672	103.428	118.516			
2/21/2007	22:00		130.732	127.078	107.746	111.687	103.442	118.503			
2/21/2007	22:30		130.728	127.067	107.785	111.689	103.447	118.491			
2/21/2007	23:00		130.762	127.053	107.794	111.691	103.444	118.478			
2/21/2007	23:30		130.784	127.039	107.791	111.691	103.444	118.461			
2/22/2007	0:00		130.769	127.025	107.77	111.682	103.437	118.446			
2/22/2007	0:30		130.754	127.011	107.754	111.68	103.437	118.439			
2/22/2007	1:00		130.743	127.115	107.749	111.68	103.435	118.454			
2/22/2007	1:30		130.732	127.101	107.746	111.672	103.428	118.441			
2/22/2007	2:00		130.721	127.085	107.765	111.676	103.43	118.426			
2/22/2007	2:30		130.715	127.071	107.734	111.664	103.421	118.412			
2/22/2007	3:00		130.708	127.057	107.72	111.655	103.409	118.429			
2/22/2007	3:30		130.7	127.094	107.716	111.647	103.402	118.418			
2/22/2007	4:00		130.691	127.083	107.713	111.642	103.397	118.405			
2/22/2007	4:30		130.743	127.067	107.734	111.642	103.397	118.392			
2/22/2007	5:00		130.73	127.057	107.706	111.634	103.388	118.389			
2/22/2007	5:30		130.715	127.041	107.692	111.622	103.381	118.37			
2/22/2007	6:00		130.707	127.032	107.68	111.609	103.364	118.356			
2/22/2007	6:30		130.691	127.018	107.682	111.604	103.355	118.347			
2/22/2007	7:00		130.683	127.006	107.666	111.59	103.343	118.364			
2/22/2007	7:30		130.672	127.048	107.67	111.588	103.343	118.352			
2/22/2007	8:00		132.271	128.117	108.171	111.87	103.737	118.724			
2/22/2007	8:30		132.491	128.283	108.289	112.043	103.921	118.886			
2/22/2007	9:00		132.572	128.35	108.359	112.114	103.994	118.95			
2/22/2007	9:30		132.613	128.385	108.399	112.158	104.041	119.015			
2/22/2007	10:00		132.641	128.406	108.414	112.182	104.062	119.032			
2/22/2007	10:30		132.659	128.418	108.44		104.086	119.045			
2/22/2007	11:00		132.674	128.429		112.207	104.102	119.053			
2/22/2007	11:30		132.687	128.438	108.543	112.215		119.06			
2/22/2007	12:00		132.695	128.445	108.539	112.221					
2/22/2007	12:30		132.702	128.448	108.54	112.221	104.105	118.62			
2/22/2007	13:00		132.708		108.54	112.217	104.102	118.62			
2/22/2007	13:30		131.234	127.887	108.13	112.015	103.796	118.62			
2/22/2007	14:00		130.954	127.686	107.947	111.796	103.56	118.62			
2/22/2007	14:30		130.78	127.601	107.854	111.693	103.454	118.62			
2/22/2007	15:00		130.748	127.552	107.799	111.636	103.393	118.922			
2/22/2007	15:30		130.725	127.525	107.761	111.594	103.353	118.881			
2/22/2007	16:00		130.712	127.506	107.733	111.569	103.322	118.852			
2/22/2007	16:30		130.694	127.494	107.713	111.546	103.301	118.835			
2/22/2007	17:00		130.685	127.483	107.699	111.535	103.289	118.82			
2/22/2007	17:30		130.673	127.476	107.683	111.52	103.275	118.805			
2/22/2007	18:00		130.666	127.471	107.675	111.512	103.263	118.793			
2/22/2007	18:30		130.65	127.467	107.661	111.497	103.249	118.782			
2/22/2007	19:00		130.648	127.462	107.658	111.493	103.244	118.776			
2/22/2007	19:30		130.641	127.462	107.645	111.482	103.232	118.765			
2/22/2007	20:00		130.628	127.453	107.642	111.478	103.23	118.761			
2/22/2007	20:30		130.616	127.444	107.635	111.472	103.223	118.756			
2/22/2007	21:00		130.612	127.43	107.623	111.459	103.209	118.741			
2/22/2007	21:30		130.614	127.416	107.615	111.451	103.202	118.733			
2/22/2007	22:00		130.605	127.157	107.608	111.442	103.192	118.724			
2/22/2007	22:30		130.587	127.159	107.61	111.446	103.199	118.727			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/22/2007	23:00		130.576	127.164	107.603	111.438	103.19	118.72			
2/22/2007	23:30		130.564	127.166	107.585	111.419	103.171	118.703			
2/23/2007	0:00		130.557	127.171	107.573	111.411	103.161	118.692			
2/23/2007	0:30		130.553	127.173	107.561	111.398	103.147	118.68			
2/23/2007	1:00		130.542	127.175	107.554	111.386	103.138	118.671			
2/23/2007	1:30		130.528	127.18	107.551	111.384	103.136	118.669			
2/23/2007	2:00		130.521	127.184	107.542	111.375	103.126	118.639			
2/23/2007	2:30		130.505	127.073	107.527	111.36	103.112	118.623			
2/23/2007	3:00		130.498	127.069	107.521	111.354	103.105	118.616			
2/23/2007	3:30		130.489	127.055	107.51	111.341	103.093	118.602			
2/23/2007	4:00		130.487	127.048	107.501	111.335	103.086	118.596			
2/23/2007	4:30		130.485	127.039	107.494	111.327	103.079	118.588			
2/23/2007	5:00		130.48	127.036	107.489	111.324	103.074	118.583			
2/23/2007	5:30		130.474	127.034	107.487	111.318	103.074	118.581			
2/23/2007	6:00		130.469	127.027	107.479	111.318	103.067	118.577			
2/23/2007	6:30		130.462	127.023	107.472	111.31	103.06	118.572			
2/23/2007	7:00		132.15	127.02	107.47	111.307	103.06	118.568			
2/23/2007	7:30		132.327	127.011	107.463	111.301	103.051	118.562			
2/23/2007	8:00		132.42	128.242	107.987	111.6	103.473	118.998			
2/23/2007	8:30		132.466	128.415	108.13	111.771	103.657	119.182			
2/23/2007	9:00		132.488	128.51	108.216	111.87	103.758	119.28			
2/23/2007	9:30		132.518	128.556	108.256	111.92	103.808	119.33			
2/23/2007	10:00		132.536	128.582	108.278	111.944	103.834	119.355			
2/23/2007	10:30		130.83	128.614	108.304	111.969	103.857	119.379			
2/23/2007	11:00		130.685	128.63	108.325	111.99	103.878	119.398			
2/23/2007	11:30		130.614	127.37	107.775	111.653	103.419	118.902			
2/23/2007	12:00		130.582	127.231	107.654	111.508	103.265	118.756			
2/23/2007	12:30		130.548	127.161	107.596	111.443	103.199	118.685			
2/23/2007	13:00		130.523	127.127	107.566	111.407	103.162	118.649			
2/23/2007	13:30		130.501	127.097	107.54	111.381	103.128	118.621			
2/23/2007	14:00		130.48	127.071	107.516	111.358	103.11	118.598			
2/23/2007	14:30		130.453	127.05	107.492	111.339	103.086	118.577			
2/23/2007	15:00		130.449	127.025	107.473	111.316	103.065	118.555			
2/23/2007	15:30		130.44	127.002	107.446	111.291	103.039	118.528			
2/23/2007	16:00		130.43	126.995	107.442	111.28	103.029	118.519			
2/23/2007	16:30		130.428	126.986	107.435	111.278	103.025	118.515			
2/23/2007	17:00		130.424	126.981	107.429	111.265	103.013	118.506			
2/23/2007	17:30		130.428	126.974	107.425	111.27	103.015	118.508			
2/23/2007	18:00		130.437	126.972	107.421	111.263	103.008	118.5			
2/23/2007	18:30		130.449	126.976	107.429	111.264	103.006	118.5			
2/23/2007	19:00		130.458	126.988	107.441	111.278	103.022	118.515			
2/23/2007	19:30		130.464	126.997	107.452	111.291	103.034	118.526			
2/23/2007	20:00		130.471	127.009	107.463	111.299	103.046	118.538			
2/23/2007	20:30		130.467	127.016	107.472	111.306	103.055	118.543			
2/23/2007	21:00		130.467	127.02	107.475	111.312	103.06	118.551			
2/23/2007	21:30		130.471	127.016	107.47	111.31	103.055	118.549			
2/23/2007	22:00		130.471	127.023	107.475	111.312	103.06	118.549			
2/23/2007	22:30		130.462	127.025	107.48	111.318	103.065	118.553			
2/23/2007	23:00		130.46	127.02	107.473	111.312	103.06	118.557			
2/23/2007	23:30		130.455	127.013	107.47	111.304	103.053	118.541			
2/24/2007	0:00		130.442	127.013	107.467	111.304	103.051	118.54			
2/24/2007	0:30		130.446	127.011	107.461	111.301	103.048	118.531			
2/24/2007	1:00		130.442	126.997	107.451	111.287	103.034	118.517			
2/24/2007	1:30		130.43	126.997	107.453	111.289	103.034	118.518			
2/24/2007	2:00		130.426	126.992	107.444	111.287	103.034	118.515			
2/24/2007	2:30		130.424	126.983	107.446	111.268	103.018	118.499			
2/24/2007	3:00		130.41	126.983	107.441	111.266	103.018	118.495			
2/24/2007	3:30		130.385	126.976	107.435	111.274	103.018	118.502			
2/24/2007	4:00		130.396	126.96	107.413	111.245	102.992	118.472			
2/24/2007	4:30		130.415	126.939	107.398	111.232	102.977	118.461			
2/24/2007	5:00		130.421	126.953	107.406	111.23	102.977	118.457			
2/24/2007	5:30		130.421	126.965	107.415	111.266	103.015	118.493			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/24/2007	6:00		130.387	126.972	107.423	111.28	103.027	118.504			
2/24/2007	6:30		130.374	126.972	107.422	111.28	103.027	118.504			
2/24/2007	7:00		130.369	126.942	107.398	111.23	102.98	118.459			
2/24/2007	7:30		130.371	126.93	107.413	111.225	102.973	118.453			
2/24/2007	8:00		132.114	126.923	107.449	111.217	102.966	118.445			
2/24/2007	8:30		132.266	126.928	107.472	111.219	102.968	118.445			
2/24/2007	9:00		132.323	128.077	107.913	111.554	103.419	118.909			
2/24/2007	9:30		132.366	128.226	108.037	111.702	103.577	119.063			
2/24/2007	10:00		132.409	128.286	108.109	111.766	103.643	119.127			
2/24/2007	10:30		132.429	128.33	108.161	111.811	103.685	119.171			
2/24/2007	11:00		132.438	128.371	108.204	111.847	103.723	119.556			
2/24/2007	11:30		130.834	128.394	108.239	111.872	103.746	119.229			
2/24/2007	12:00		130.646	128.404	108.268	111.885	103.758	119.237			
2/24/2007	12:30		130.557	127.376	107.922	111.666	103.435	118.9			
2/24/2007	13:00		130.51	127.196	107.808	111.486	103.242	118.709			
2/24/2007	13:30		130.494	127.11	107.756	111.404	103.155	118.622			
2/24/2007	14:00		130.476	127.062	107.73	111.352	103.102	118.57			
2/24/2007	14:30		130.455	127.046	107.715	111.333	103.079	118.549			
2/24/2007	15:00		130.483	127.027	107.708	111.327	103.077	118.543			
2/24/2007	15:30		130.469	127.006	107.703	111.305	103.055	118.521			
2/24/2007	16:00		130.478	127.036	107.703	111.322	103.067	118.536			
2/24/2007	16:30		130.501	127.023	107.706	111.322	103.067	118.536			
2/24/2007	17:00		130.512	127.032	107.706	111.32	103.067	118.534			
2/24/2007	17:30		130.537	127.055	107.708	111.343	103.088	118.558			
2/24/2007	18:00		130.555	127.069	107.71	111.364	103.112	118.577			
2/24/2007	18:30		130.571	127.092	107.716	111.386	103.133	118.599			
2/24/2007	19:00		130.578	127.11	107.732	111.411	103.157	118.622			
2/24/2007	19:30		130.587	127.131	107.739	111.423	103.173	118.633			
2/24/2007	20:00		130.6	127.136	107.756	111.432	103.18	118.646			
2/24/2007	20:30		130.614	127.145	107.807	111.443	103.19	118.656			
2/24/2007	21:00		130.628	127.161	107.844	111.451	103.199	118.665			
2/24/2007	21:30		130.635	127.178	107.856	111.474	103.218	118.686			
2/24/2007	22:00		130.644	127.189	107.865	111.484	103.227	118.695			
2/24/2007	22:30		130.648	127.196	107.882	111.489	103.237	118.703			
2/24/2007	23:00		130.653	127.205	107.89	111.501	103.256	118.683			
2/24/2007	23:30		130.659	127.212	107.891	111.508	103.256	118.717			
2/25/2007	0:00		130.657	127.217	107.889	111.506	103.258	118.719			
2/25/2007	0:30		130.659	127.221	107.885	111.516	103.263	118.726			
2/25/2007	1:00		130.66	127.221	107.882	111.512	103.263	118.726			
2/25/2007	1:30		130.669	127.221	107.875	111.514	103.268	118.722			
2/25/2007	2:00		130.669	127.226	107.864	111.516	103.265	118.729			
2/25/2007	2:30		130.669	127.235	107.832	111.526	103.277	118.737			
2/25/2007	3:00		130.666	127.24	107.794	111.531	103.282	118.737			
2/25/2007	3:30		130.669	127.235	107.758	111.527	103.279	118.74			
2/25/2007	4:00		130.673	127.233	107.73	111.522	103.275	118.735			
2/25/2007	4:30		130.678	127.238	107.711	111.527	103.279	118.737			
2/25/2007	5:00		130.682	127.24	107.703	111.531	103.282	118.742			
2/25/2007	5:30		130.693	127.242	107.697	111.533	103.284	118.744			
2/25/2007	6:00		130.691	127.249	107.691	111.541	103.289	118.752			
2/25/2007	6:30		130.687	127.259	107.689	111.546	103.298	118.757			
2/25/2007	7:00		130.689	127.261	107.68	111.546	103.296	118.757			
2/25/2007	7:30		130.689	127.259	107.684	111.546	103.298	118.759			
2/25/2007	8:00		130.698	127.256	107.685	111.546	103.301	118.754			
2/25/2007	8:30		132.334	127.259	107.687	111.546	103.301	118.761			
2/25/2007	9:00		132.552	127.268	107.692	111.552	103.305	118.767			
2/25/2007	9:30		132.64	128.443	108.128	111.798	103.671	119.15			
2/25/2007	10:00		132.688	128.658	108.27	112.013	103.899	119.376			
2/25/2007	10:30		132.729	128.751	108.332	112.104	103.992	119.462			
2/25/2007	11:00		132.747	128.804	108.368	112.154	104.046	119.513			
2/25/2007	11:30		132.77	128.841	108.414	112.196	104.084	119.554			
2/25/2007	12:00		132.786	128.864	108.483	112.211	104.105	119.567			
2/25/2007	12:30		132.788	128.883	108.537	112.232	104.126	119.593			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/25/2007	13:00		132.781	128.901	108.576	112.249	104.143	119.608			
2/25/2007	13:30		132.774	128.899	108.599	112.255	104.147	119.612			
2/25/2007	14:00		132.779	128.894	108.606	112.249	104.14	119.606			
2/25/2007	14:30		131.075	128.889	108.602	112.242	104.133	119.599			
2/25/2007	15:00		130.92	128.892	108.601	112.245	104.135	119.601			
2/25/2007	15:30		130.841	127.636	108.09	111.916	103.68	119.133			
2/25/2007	16:00		130.809	127.485	107.951	111.765	103.522	118.975			
2/25/2007	16:30		130.805	127.407	107.87	111.686	103.44	118.896			
2/25/2007	17:00		130.768	127.374	107.832	111.653	103.407	118.859			
2/25/2007	17:30		130.762	127.367	107.816	111.655	103.404	118.857			
2/25/2007	18:00		130.741	127.335	107.787	111.621	103.371	118.825			
2/25/2007	18:30		130.734	127.328	107.771	111.611	103.36	118.814			
2/25/2007	19:00		130.718	127.307	107.754	111.598	103.348	118.803			
2/25/2007	19:30		130.703	127.302	107.742	111.588	103.341	118.795			
2/25/2007	20:00		130.698	127.286	107.727	111.575	103.327	118.782			
2/25/2007	20:30		130.694	127.272	107.711	111.562	103.312	118.767			
2/25/2007	21:00		130.696	127.265	107.701	111.556	103.308	118.761			
2/25/2007	21:30		130.691	127.263	107.696	111.552	103.303	118.756			
2/25/2007	22:00		130.682	127.263	107.692	111.552	103.303	118.757			
2/25/2007	22:30		130.669	127.261	107.689	111.55	103.301	118.754			
2/25/2007	23:00		130.648	127.252	107.682	111.543	103.294	118.746			
2/25/2007	23:30		130.635	127.238	107.672	111.531	103.279	118.735			
2/26/2007	0:00		130.63	127.217	107.654	111.51	103.258	118.714			
2/26/2007	0:30		130.623	127.205	107.642	111.495	103.242	118.699			
2/26/2007	1:00		130.612	127.201	107.637	111.493	103.242	118.697			
2/26/2007	1:30		130.594	127.194	107.63	111.486	103.235	118.69			
2/26/2007	2:00		130.578	127.18	107.618	111.472	103.223	118.676			
2/26/2007	2:30		130.571	127.166	107.603	111.453	103.204	118.658			
2/26/2007	3:00		130.58	127.15	107.589	111.442	103.19	118.645			
2/26/2007	3:30		130.587	127.143	107.579	111.432	103.18	118.637			
2/26/2007	4:00		130.589	127.152	107.585	111.444	103.194	118.65			
2/26/2007	4:30		130.589	127.159	107.591	111.449	103.194	118.65			
2/26/2007	5:00		130.585	127.161	107.596	111.453	103.202	118.658			
2/26/2007	5:30		130.585	127.161	107.598	111.455	103.202	118.658			
2/26/2007	6:00		130.587	127.157	107.592	111.449	103.197	118.652			
2/26/2007	6:30		130.587	127.157	107.592	111.447	103.199	118.652			
2/26/2007	7:00		132.234	127.159	107.592	111.447	103.194	118.652			
2/26/2007	7:30		132.438	127.159	107.594	111.447	103.202	118.652			
2/26/2007	8:00		132.52	128.221	108.025	111.699	103.56	119.024			
2/26/2007	8:30		132.568	128.422	108.197	111.899	103.772	119.235			
2/26/2007	9:00		132.593	128.505	108.282	111.986	103.864	119.323			
2/26/2007	9:30		132.615	128.554	108.333	112.036	103.916	119.373			
2/26/2007	10:00		132.636	128.584	108.366	112.066	103.94	119.4			
2/26/2007	10:30		130.943	128.607	108.392	112.086	103.961	119.422			
2/26/2007	11:00		130.821	128.628	108.364	112.112	103.987	119.447			
2/26/2007	11:30		130.759	127.508	107.961	111.792	103.553	119.004			
2/26/2007	12:00		130.725	127.395	107.853	111.678	103.433	118.883			
2/26/2007	12:30		130.7	127.333	107.794	111.621	103.371	118.821			
2/26/2007	13:00		130.669	127.296	107.754	111.586	103.338	118.789			
2/26/2007	13:30		130.648	127.272	107.727	111.56	103.31	118.763			
2/26/2007	14:00		130.63	127.24	107.697	111.531	103.284	118.737			
2/26/2007	14:30		130.625	127.221	107.673	111.51	103.26	118.712			
2/26/2007	15:00		130.621	127.205	107.654	111.493	103.244	118.695			
2/26/2007	15:30		130.612	127.198	107.644	111.489	103.237	118.69			
2/26/2007	16:00		130.616	127.196	107.641	111.487	103.237	118.69			
2/26/2007	16:30		130.623	127.187	107.63	111.48	103.227	118.68			
2/26/2007	17:00		130.632	127.191	107.63	111.48	103.23	118.68			
2/26/2007	17:30		130.639	127.201	107.635	111.487	103.235	118.686			
2/26/2007	18:00		130.644	127.208	107.644	111.499	103.251	118.699			
2/26/2007	18:30		130.648	127.217	107.653	111.503	103.253	118.703			
2/26/2007	19:00		130.646	127.221	107.66	111.51	103.263	118.712			
2/26/2007	19:30		130.641	127.226	107.666	111.516	103.268	118.718			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/26/2007	20:00		130.641	127.224	107.665	111.514	103.263	118.714			
2/26/2007	20:30		130.644	127.217	107.661	111.506	103.258	118.708			
2/26/2007	21:00		130.637	127.219	107.665	111.512	103.263	118.712			
2/26/2007	21:30		130.635	127.219	107.663	111.508	103.26	118.712			
2/26/2007	22:00		130.632	127.217	107.66	111.505	103.258	118.708			
2/26/2007	22:30		130.628	127.212	107.656	111.506	103.253	118.707			
2/26/2007	23:00		130.626	127.21	107.654	111.505	103.253	118.707			
2/26/2007	23:30		130.619	127.208	107.653	111.503	103.253	118.705			
2/27/2007	0:00		130.612	127.203	107.647	111.497	103.244	118.697			
2/27/2007	0:30		130.605	127.196	107.641	111.487	103.239	118.692			
2/27/2007	1:00		130.594	127.191	107.634	111.483	103.23	118.684			
2/27/2007	1:30		130.591	127.184	107.627	111.476	103.225	118.676			
2/27/2007	2:00		130.585	127.173	107.625	111.461	103.211	118.663			
2/27/2007	2:30		130.571	127.171	107.625	111.461	103.211	118.663			
2/27/2007	3:00		130.58	127.166	107.616	111.461	103.209	118.66			
2/27/2007	3:30		130.578	127.152	107.606	111.438	103.187	118.639			
2/27/2007	4:00		130.576	127.161	107.613	111.445	103.194	118.648			
2/27/2007	4:30		130.573	127.157	107.61	111.447	103.197	118.648			
2/27/2007	5:00		130.578	127.154	107.608	111.446	103.197	118.65			
2/27/2007	5:30		130.578	127.154	107.61	111.445	103.192	118.648			
2/27/2007	6:00		130.573	127.161	107.611	111.447	103.197	118.652			
2/27/2007	6:30		130.573	127.159	107.611	111.451	103.199	118.654			
2/27/2007	7:00		132.282	127.154	107.608	111.445	103.197	118.65			
2/27/2007	7:30		132.454	127.157	107.604	111.447	103.197	118.65			
2/27/2007	8:00		132.525	128.399	108.146	111.752	103.628	119.092			
2/27/2007	8:30		132.57	128.573	108.285	111.933	103.817	119.274			
2/27/2007	9:00		132.604	128.644	108.344	112.002	103.89	119.345			
2/27/2007	9:30		132.627	128.693	108.389	112.047	103.937	119.39			
2/27/2007	10:00		132.645	128.73	108.425	112.084	103.975	119.426			
2/27/2007	10:30		132.658	128.753	108.44	112.106	103.994	119.445			
2/27/2007	11:00		131.036	128.774	108.459	112.126	104.015	119.465			
2/27/2007	11:30		130.823	128.785	108.468	112.143	104.034	119.482			
2/27/2007	12:00		130.723	127.608	107.987	111.901	103.676	119.114			
2/27/2007	12:30		130.673	127.402	107.822	111.682	103.442	118.885			
2/27/2007	13:00		130.635	127.3	107.73	111.586	103.341	118.785			
2/27/2007	13:30		130.605	127.254	107.689	111.531	103.284	118.729			
2/27/2007	14:00		130.578	127.215	107.656	111.501	103.251	118.694			
2/27/2007	14:30		130.551	127.187	107.627	111.472	103.225	118.669			
2/27/2007	15:00		130.53	127.159	107.601	111.447	103.199	118.641			
2/27/2007	15:30		130.51	127.131	107.577	111.419	103.173	118.613			
2/27/2007	16:00		130.483	127.11	107.558	111.402	103.154	118.594			
2/27/2007	16:30		130.474	127.092	107.534	111.383	103.136	118.575			
2/27/2007	17:00		130.471	127.064	107.51	111.356	103.11	118.551			
2/27/2007	17:30		130.462	127.055	107.504	111.345	103.095	118.537			
2/27/2007	18:00		130.462	127.053	107.503	111.343	103.093	118.541			
2/27/2007	18:30		130.469	127.046	107.494	111.337	103.091	118.534			
2/27/2007	19:00		130.48	127.043	107.494	111.337	103.086	118.531			
2/27/2007	19:30		130.496	127.05	107.504	111.341	103.091	118.534			
2/27/2007	20:00		130.489	127.062	107.515	111.354	103.105	118.547			
2/27/2007	20:30		130.496	127.078	107.532	111.371	103.121	118.564			
2/27/2007	21:00		130.492	127.073	107.525	111.369	103.121	118.564			
2/27/2007	21:30		130.483	127.078	107.529	111.371	103.119	118.564			
2/27/2007	22:00		130.467	127.078	107.527	111.369	103.119	118.564			
2/27/2007	22:30		130.453	127.067	107.516	111.36	103.107	118.553			
2/27/2007	23:00		130.428	127.05	107.501	111.346	103.095	118.541			
2/27/2007	23:30		130.414	127.036	107.485	111.331	103.081	118.524			
2/28/2007	0:00		130.399	127.009	107.46	111.31	103.058	118.5			
2/28/2007	0:30		130.383	126.997	107.446	111.291	103.041	118.485			
2/28/2007	1:00		130.378	126.981	107.432	111.274	103.025	118.47			
2/28/2007	1:30		130.369	126.965	107.422	111.263	103.013	118.455			
2/28/2007	2:00		130.367	126.958	107.41	111.264	103.013	118.459			
2/28/2007	2:30		130.362	126.951	107.403	111.246	102.996	118.442			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
2/28/2007	3:00		130.342	126.949	107.403	111.244	102.992	118.436			
2/28/2007	3:30		130.333	126.949	107.399	111.242	102.989	118.432			
2/28/2007	4:00		130.331	126.925	107.377	111.221	102.97	118.414			
2/28/2007	4:30		130.326	126.916	107.368	111.209	102.959	118.402			
2/28/2007	5:00		130.326	126.912	107.367	111.211	102.954	118.4			
2/28/2007	5:30		130.326	126.909	107.361	111.204	102.952	118.395			
2/28/2007	6:00		130.315	126.912	107.365	111.204	102.952	118.393			
2/28/2007	6:30		130.306	126.909	107.36	111.206	102.954	118.395			
2/28/2007	7:00		132.025	126.9	107.351	111.194	102.942	118.386			
2/28/2007	7:30		132.198	126.888	107.342	111.185	102.935	118.374			
2/28/2007	8:00		132.277	128.013	107.853	111.48	103.345	118.789			
2/28/2007	8:30		132.329	128.184	107.992	111.653	103.524	118.962			
2/28/2007	9:00		132.37	128.263	108.063	111.737	103.612	119.041			
2/28/2007	9:30		132.4	128.318	108.111	111.788	103.664	119.09			
2/28/2007	10:00		132.418	128.36	108.152	111.834	103.709	119.129			
2/28/2007	10:30		132.422	128.392	108.184	111.868	103.742	119.163			
2/28/2007	11:00		132.45	128.408	108.201	111.886	103.758	119.178			
2/28/2007	11:30		132.445	128.418	108.215	111.901	103.775	119.191			
2/28/2007	12:00		132.443	128.441	108.233	111.927	103.805	119.214			
2/28/2007	12:30		132.416	128.438	108.228	111.924	103.801	119.208			
2/28/2007	13:00		132.42	128.441	108.239	111.914	103.791	119.189			
2/28/2007	13:30		132.427	128.413	108.218	111.88	103.735	119.146			
2/28/2007	14:00		130.691	128.392	108.175	111.893	103.76	119.165			
2/28/2007	14:30		130.587	127.996	108.011	111.924	103.793	119.191			
2/28/2007	15:00		130.523	127.259	107.682	111.563	103.313	118.731			
2/28/2007	15:30		130.492	127.161	107.59	111.455	103.206	118.628			
2/28/2007	16:00		130.473	127.101	107.539	111.39	103.14	118.564			
2/28/2007	16:30		130.473	127.071	107.51	111.362	103.112	118.536			
2/28/2007	17:00		130.485	127.05	107.498	111.343	103.091	118.513			
2/28/2007	17:30		130.496	127.053	107.501	111.348	103.093	118.517			
2/28/2007	18:00		130.501	127.067	107.518	111.36	103.102	118.528			
2/28/2007	18:30		130.494	127.076	107.529	111.373	103.116	118.539			
2/28/2007	19:00		130.507	127.083	107.537	111.375	103.121	118.545			
2/28/2007	19:30		130.492	127.071	107.525	111.379	103.121	118.545			
2/28/2007	20:00		130.485	127.087	107.542	111.39	103.136	118.56			
2/28/2007	20:30		130.544	127.071	107.52	111.379	103.124	118.545			
2/28/2007	21:00		130.519	127.064	107.522	111.35	103.093	118.519			
2/28/2007	21:30		130.467	127.127	107.584	111.413	103.157	118.579			
2/28/2007	22:00		130.467	127.09	107.527	111.419	103.164	118.584			
2/28/2007	22:30		130.473	127.048	107.501	111.356	103.102	118.521			
2/28/2007	23:00		130.469	127.048	107.498	111.36	103.11	118.528			
2/28/2007	23:30		130.498	127.055	107.497	111.366	103.114	118.53			
3/1/2007	0:00		130.464	127.055	107.508	111.352	103.1	118.515			
3/1/2007	0:30		130.467	127.076	107.527	111.4	103.147	118.562			
3/1/2007	1:00		130.446	127.046	107.506	111.348	103.098	118.513			
3/1/2007	1:30		130.442	127.057	107.527	111.331	103.077	118.494			
3/1/2007	2:00		130.421	127.032	107.484	111.343	103.088	118.504			
3/1/2007	2:30		130.446	127.032	107.49	111.36	103.117	118.528			
3/1/2007	3:00		130.396	127.002	107.454	111.303	103.046	118.466			
3/1/2007	3:30		130.385	127.025	107.461	111.335	103.074	118.496			
3/1/2007	4:00		130.387	126.972	107.396	111.278	103.022	118.44			
3/1/2007	4:30		130.408	126.965	107.422	111.27	103.018	118.434			
3/1/2007	5:00		130.451	126.974	107.43	111.27	103.015	118.432			
3/1/2007	5:30		130.467	126.992	107.448	111.293	103.039	118.449			
3/1/2007	6:00		130.483	127.041	107.499	111.335	103.076	118.496			
3/1/2007	6:30		130.492	127.06	107.518	111.356	103.1	118.515			
3/1/2007	7:00		132.064	127.071	107.527	111.369	103.114	118.528			
3/1/2007	7:30		132.359	127.08	107.539	111.381	103.121	118.537			
3/1/2007	8:00		132.47	128.2	108.001	111.558	103.409	118.819			
3/1/2007	8:30		132.527	128.489	108.22	111.859	103.737	119.105			
3/1/2007	9:00		132.572	128.6	108.316	111.977	103.857	119.201			
3/1/2007	9:30		132.604	128.658	108.364	112.03	103.909	119.242			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/1/2007	10:00		132.638	128.704	108.409	112.076	103.956	119.278			
3/1/2007	10:30		131.417	128.739	108.439	112.106	103.989	119.3			
3/1/2007	11:00		130.923	128.769	108.468	112.137	104.015	119.326			
3/1/2007	11:30		130.814	127.925	108.185	112.166	104.043	119.349			
3/1/2007	12:00		130.748	127.511	107.923	111.798	103.551	118.949			
3/1/2007	12:30		130.703	127.404	107.835	111.687	103.43	118.846			
3/1/2007	13:00		130.682	127.337	107.78	111.626	103.367	118.785			
3/1/2007	13:30		130.657	127.291	107.744	111.598	103.336	118.759			
3/1/2007	14:00		130.639	127.272	107.715	111.565	103.305	118.729			
3/1/2007	14:30		130.628	127.245	107.691	111.541	103.282	118.703			
3/1/2007	15:00		130.619	127.228	107.68	111.529	103.265	118.684			
3/1/2007	15:30		130.607	127.219	107.668	111.512	103.251	118.676			
3/1/2007	16:00		130.6	127.208	107.68	111.499	103.242	118.66			
3/1/2007	16:30		130.6	127.198	107.699	111.489	103.23	118.654			
3/1/2007	17:00		130.6	127.194	107.699	111.486	103.223	118.648			
3/1/2007	17:30		130.603	127.194	107.682	111.483	103.225	118.641			
3/1/2007	18:00		130.605	127.191	107.67	111.486	103.225	118.646			
3/1/2007	18:30		130.603	127.196	107.661	111.489	103.225	118.65			
3/1/2007	19:00		130.603	127.196	107.654	111.489	103.23	118.654			
3/1/2007	19:30		130.607	127.194	107.647	111.489	103.223	118.654			
3/1/2007	20:00		130.605	127.194	107.644	111.487	103.225	118.65			
3/1/2007	20:30		130.6	127.196	107.642	111.489	103.227	118.656			
3/1/2007	21:00		130.596	127.194	107.639	111.491	103.227	118.654			
3/1/2007	21:30		130.596	127.191	107.635	111.491	103.223	118.654			
3/1/2007	22:00		130.587	127.187	107.63	111.482	103.22	118.646			
3/1/2007	22:30		130.58	127.184	107.629	111.482	103.218	118.646			
3/1/2007	23:00		130.573	127.178	107.622	111.472	103.211	118.641			
3/1/2007	23:30		130.569	127.171	107.615	111.464	103.204	118.633			
3/2/2007	0:00		130.564	127.168	107.61	111.463	103.199	118.628			
3/2/2007	0:30		130.564	127.159	107.601	111.451	103.19	118.62			
3/2/2007	1:00		130.551	127.157	107.599	111.447	103.187	118.616			
3/2/2007	1:30		130.539	127.154	107.594	111.447	103.185	118.613			
3/2/2007	2:00		130.532	127.143	107.585	111.436	103.173	118.603			
3/2/2007	2:30		130.528	127.131	107.577	111.425	103.161	118.592			
3/2/2007	3:00		130.528	127.124	107.57	111.419	103.154	118.584			
3/2/2007	3:30		130.526	127.12	107.565	111.411	103.15	118.579			
3/2/2007	4:00		130.523	127.12	107.563	111.413	103.15	118.579			
3/2/2007	4:30		130.519	127.12	107.563	111.411	103.15	118.577			
3/2/2007	5:00		130.523	127.115	107.559	111.409	103.147	118.575			
3/2/2007	5:30		130.519	127.115	107.558	111.404	103.143	118.569			
3/2/2007	6:00		130.519	127.117	107.559	111.409	103.147	118.577			
3/2/2007	6:30		130.512	127.11	107.556	111.404	103.143	118.571			
3/2/2007	7:00		132.039	127.11	107.556	111.403	103.143	118.573			
3/2/2007	7:30		132.341	127.104	107.548	111.394	103.133	118.564			
3/2/2007	8:00		132.445	128.057	107.892	111.516	103.338	118.769			
3/2/2007	8:30		132.506	128.346	108.116	111.819	103.678	119.062			
3/2/2007	9:00		132.54	128.452	108.223	111.929	103.789	119.15			
3/2/2007	9:30		132.568	128.51	108.285	111.986	103.852	119.195			
3/2/2007	10:00		132.586	128.549	108.345	112.025	103.89	119.225			
3/2/2007	10:30		132.595	128.577	108.373	112.049	103.914	119.244			
3/2/2007	11:00		132.599	128.598	108.382	112.07	103.935	119.259			
3/2/2007	11:30		132.611	128.605	108.397	112.082	103.947	119.261			
3/2/2007	12:00		131.009	128.614	108.409	112.097	103.963	119.268			
3/2/2007	12:30		130.814	128.623	108.421	112.108	103.97	119.276			
3/2/2007	13:00		130.728	127.592	107.973	111.878	103.635	119.015			
3/2/2007	13:30		130.678	127.404	107.823	111.691	103.435	118.842			
3/2/2007	14:00		130.646	127.323	107.751	111.605	103.345	118.757			
3/2/2007	14:30		130.632	127.268	107.722	111.556	103.296	118.712			
3/2/2007	15:00		130.623	127.238	107.697	111.529	103.265	118.68			
3/2/2007	15:30		130.616	127.226	107.682	111.514	103.249	118.671			
3/2/2007	16:00		130.607	127.217	107.677	111.504	103.246	118.66			
3/2/2007	16:30		130.61	127.21	107.68	111.499	103.235	118.654			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/2/2007	17:00		130.598	127.196	107.68	111.487	103.223	118.645			
3/2/2007	17:30		130.6	127.203	107.713	111.493	103.232	118.646			
3/2/2007	18:00		130.614	127.194	107.718	111.491	103.227	118.643			
3/2/2007	18:30		130.616	127.198	107.706	111.491	103.23	118.646			
3/2/2007	19:00		130.625	127.21	107.696	111.503	103.239	118.654			
3/2/2007	19:30		130.623	127.212	107.684	111.508	103.246	118.661			
3/2/2007	20:00		130.612	127.221	107.68	111.522	103.256	118.675			
3/2/2007	20:30		130.612	127.217	107.67	111.514	103.251	118.665			
3/2/2007	21:00		130.603	127.21	107.656	111.504	103.239	118.661			
3/2/2007	21:30		130.598	127.21	107.649	111.504	103.242	118.658			
3/2/2007	22:00		130.589	127.201	107.639	111.495	103.23	118.65			
3/2/2007	22:30		130.585	127.196	107.63	111.491	103.227	118.645			
3/2/2007	23:00		130.573	127.189	107.622	111.482	103.218	118.639			
3/2/2007	23:30		130.589	127.182	107.615	111.476	103.211	118.631			
3/3/2007	0:00		130.598	127.173	107.604	111.468	103.206	118.624			
3/3/2007	0:30		130.6	127.187	107.615	111.484	103.22	118.641			
3/3/2007	1:00		130.612	127.198	107.621	111.491	103.225	118.646			
3/3/2007	1:30		130.616	127.201	107.627	111.495	103.232	118.654			
3/3/2007	2:00		130.619	127.208	107.635	111.505	103.239	118.661			
3/3/2007	2:30		130.616	127.215	107.639	111.508	103.249	118.667			
3/3/2007	3:00		130.614	127.217	107.642	111.512	103.251	118.669			
3/3/2007	3:30		130.616	127.21	107.641	111.508	103.246	118.671			
3/3/2007	4:00		130.621	127.215	107.641	111.51	103.249	118.671			
3/3/2007	4:30		130.628	127.215	107.642	111.51	103.249	118.669			
3/3/2007	5:00		130.632	127.224	107.646	111.512	103.251	118.675			
3/3/2007	5:30		130.646	127.228	107.651	111.526	103.258	118.682			
3/3/2007	6:00		130.648	127.233	107.656	111.527	103.265	118.686			
3/3/2007	6:30		130.65	127.247	107.665	111.537	103.275	118.699			
3/3/2007	7:00		130.65	127.249	107.67	111.541	103.279	118.707			
3/3/2007	7:30		130.644	127.252	107.671	111.546	103.282	118.707			
3/3/2007	8:00		130.641	127.252	107.672	111.542	103.282	118.712			
3/3/2007	8:30		130.664	127.247	107.673	111.544	103.284	118.712			
3/3/2007	9:00		132.236	127.245	107.673	111.552	103.289	118.72			
3/3/2007	9:30		132.502	127.263	107.679	111.544	103.286	118.718			
3/3/2007	10:00		132.604	128.258	108.061	111.723	103.56	118.985			
3/3/2007	10:30		132.658	128.51	108.27	111.992	103.85	119.244			
3/3/2007	11:00		132.69	128.61	108.37	112.089	103.954	119.332			
3/3/2007	11:30		132.72	128.667	108.401	112.144	104.008	119.373			
3/3/2007	12:00		132.724	128.704	108.432	112.179	104.048	119.402			
3/3/2007	12:30		132.736	128.73	108.478	112.207	104.077	119.43			
3/3/2007	13:00		132.724	128.737	108.509	112.215	104.084	119.432			
3/3/2007	13:30		132.72	128.748	108.532	112.219	104.088	119.434			
3/3/2007	14:00		132.708	128.737	108.538	112.219	104.086	119.43			
3/3/2007	14:30		132.717	128.737	108.54	112.219	104.086	119.426			
3/3/2007	15:00		131.047	128.732	108.54	112.221	104.084	119.424			
3/3/2007	15:30		130.864	128.737	108.542	112.224	104.088	119.426			
3/3/2007	16:00		130.798	127.636	108.077	111.92	103.671	119.078			
3/3/2007	16:30		130.768	127.474	107.932	111.775	103.52	118.932			
3/3/2007	17:00		130.755	127.402	107.859	111.703	103.44	118.859			
3/3/2007	17:30		130.741	127.367	107.818	111.661	103.4	118.837			
3/3/2007	18:00		130.732	127.351	107.797	111.646	103.383	118.82			
3/3/2007	18:30		130.725	127.335	107.78	111.63	103.367	118.803			
3/3/2007	19:00		130.721	127.326	107.77	111.621	103.36	118.797			
3/3/2007	19:30		130.709	127.319	107.761	111.611	103.35	118.789			
3/3/2007	20:00		130.7	127.316	107.752	111.606	103.343	118.784			
3/3/2007	20:30		130.691	127.305	107.74	111.598	103.334	118.776			
3/3/2007	21:00		130.687	127.296	107.732	111.588	103.324	118.765			
3/3/2007	21:30		130.68	127.284	107.72	111.579	103.317	118.759			
3/3/2007	22:00		130.671	127.277	107.71	111.569	103.305	118.75			
3/3/2007	22:30		130.666	127.272	107.702	111.567	103.303	118.746			
3/3/2007	23:00		130.659	127.268	107.694	111.556	103.296	118.737			
3/3/2007	23:30		130.657	127.259	107.685	111.55	103.286	118.731			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/4/2007	0:00		130.644	127.254	107.678	111.542	103.282	118.726			
3/4/2007	0:30		130.625	127.249	107.677	111.541	103.277	118.72			
3/4/2007	1:00		130.614	127.235	107.668	111.527	103.265	118.708			
3/4/2007	1:30		130.6	127.219	107.658	111.512	103.251	118.695			
3/4/2007	2:00		130.596	127.21	107.647	111.501	103.237	118.682			
3/4/2007	2:30		130.582	127.196	107.635	111.487	103.225	118.669			
3/4/2007	3:00		130.569	127.191	107.629	111.48	103.218	118.664			
3/4/2007	3:30		130.553	127.178	107.618	111.47	103.206	118.652			
3/4/2007	4:00		130.544	127.164	107.604	111.457	103.192	118.639			
3/4/2007	4:30		130.541	127.145	107.587	111.438	103.176	118.622			
3/4/2007	5:00		130.53	127.138	107.591	111.426	103.164	118.611			
3/4/2007	5:30		130.521	127.134	107.585	111.424	103.161	118.607			
3/4/2007	6:00		130.514	127.124	107.577	111.415	103.152	118.596			
3/4/2007	6:30		130.501	127.115	107.566	111.407	103.143	118.588			
3/4/2007	7:00		130.489	127.106	107.554	111.402	103.138	118.581			
3/4/2007	7:30		130.48	127.094	107.546	111.392	103.128	118.573			
3/4/2007	8:00		131.941	127.083	107.533	111.375	103.112	118.558			
3/4/2007	8:30		132.302	127.076	107.525	111.367	103.102	118.547			
3/4/2007	9:00		132.427	128.094	107.93	111.423	103.202	118.676			
3/4/2007	9:30		132.497	128.434	108.166	111.798	103.661	119.094			
3/4/2007	10:00		132.531	128.561	108.271	111.926	103.796	119.216			
3/4/2007	10:30		131.231	128.635	108.337	111.994	103.866	119.279			
3/4/2007	11:00		130.818	128.67	108.369	112.03	103.902	119.31			
3/4/2007	11:30		130.721	127.765	108.058	112.07	103.947	119.344			
3/4/2007	12:00		130.666	127.407	107.818	111.691	103.44	118.87			
3/4/2007	12:30		130.635	127.312	107.74	111.594	103.336	118.77			
3/4/2007	13:00		130.61	127.259	107.697	111.548	103.286	118.722			
3/4/2007	13:30		130.589	127.221	107.663	111.514	103.251	118.688			
3/4/2007	14:00		130.571	127.201	107.64	111.489	103.23	118.663			
3/4/2007	14:30		130.56	127.182	107.627	111.472	103.209	118.646			
3/4/2007	15:00		130.551	127.161	107.606	111.455	103.19	118.628			
3/4/2007	15:30		130.551	127.15	107.599	111.442	103.18	118.617			
3/4/2007	16:00		130.551	127.145	107.594	111.438	103.178	118.613			
3/4/2007	16:30		130.544	127.143	107.594	111.438	103.173	118.609			
3/4/2007	17:00		130.539	127.141	107.592	111.434	103.173	118.607			
3/4/2007	17:30		130.539	127.136	107.587	111.43	103.166	118.603			
3/4/2007	18:00		130.537	127.136	107.579	111.428	103.166	118.601			
3/4/2007	18:30		130.537	127.134	107.585	111.426	103.164	118.602			
3/4/2007	19:00		130.541	127.131	107.58	111.424	103.161	118.6			
3/4/2007	19:30		130.544	127.129	107.582	111.423	103.161	118.598			
3/4/2007	20:00		130.539	127.136	107.589	111.428	103.164	118.605			
3/4/2007	20:30		130.528	127.138	107.59	111.428	103.166	118.607			
3/4/2007	21:00		130.528	127.131	107.582	111.423	103.159	118.599			
3/4/2007	21:30		130.521	127.124	107.575	111.415	103.152	118.592			
3/4/2007	22:00		130.517	127.122	107.572	111.417	103.152	118.59			
3/4/2007	22:30		130.507	127.115	107.564	111.407	103.143	118.583			
3/4/2007	23:00		130.503	127.11	107.563	111.402	103.136	118.575			
3/4/2007	23:30		130.494	127.101	107.551	111.394	103.131	118.569			
3/5/2007	0:00		130.494	127.097	107.546	111.386	103.121	118.562			
3/5/2007	0:30		130.489	127.087	107.537	111.381	103.114	118.555			
3/5/2007	1:00		130.489	127.087	107.539	111.377	103.112	118.551			
3/5/2007	1:30		130.48	127.085	107.535	111.375	103.112	118.551			
3/5/2007	2:00		130.471	127.085	107.533	111.375	103.112	118.549			
3/5/2007	2:30		130.462	127.076	107.525	111.365	103.102	118.54			
3/5/2007	3:00		130.453	127.064	107.515	111.36	103.093	118.532			
3/5/2007	3:30		130.451	127.055	107.506	111.348	103.086	118.521			
3/5/2007	4:00		130.451	127.05	107.498	111.337	103.074	118.511			
3/5/2007	4:30		130.455	127.046	107.497	111.337	103.074	118.51			
3/5/2007	5:00		130.446	127.046	107.499	111.337	103.072	118.511			
3/5/2007	5:30		130.446	127.048	107.499	111.339	103.074	118.513			
3/5/2007	6:00		130.451	127.041	107.492	111.337	103.069	118.509			
3/5/2007	6:30		130.453	127.041	107.492	111.335	103.067	118.504			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/5/2007	7:00		132.116	127.043	107.496	111.333	103.069	118.506			
3/5/2007	7:30		132.343	127.048	107.501	111.339	103.079	118.511			
3/5/2007	8:00		132.434	128.246	108.018	111.607	103.466	118.885			
3/5/2007	8:30		132.493	128.48	108.19	111.823	103.699	119.09			
3/5/2007	9:00		132.534	128.566	108.294	111.927	103.798	119.171			
3/5/2007	9:30		132.563	128.626	108.327	111.986	103.862	119.217			
3/5/2007	10:00		132.583	128.667	108.362	112.024	103.902	119.248			
3/5/2007	10:30		132.602	128.697	108.39	112.053	103.93	119.268			
3/5/2007	11:00		131.066	128.721	108.412	112.08	103.954	119.287			
3/5/2007	11:30		130.798	128.739	108.427	112.099	103.973	119.3			
3/5/2007	12:00		130.7	127.638	107.994	111.931	103.704	119.082			
3/5/2007	12:30		130.637	127.386	107.797	111.674	103.421	118.836			
3/5/2007	13:00		130.596	127.291	107.718	111.554	103.303	118.727			
3/5/2007	13:30		130.569	127.226	107.649	111.503	103.246	118.671			
3/5/2007	14:00		130.537	127.187	107.623	111.466	103.208	118.635			
3/5/2007	14:30		130.532	127.157	107.589	111.438	103.18	118.605			
3/5/2007	15:00		130.532	127.127	107.57	111.409	103.15	118.577			
3/5/2007	15:30		130.532	127.124	107.57	111.411	103.145	118.573			
3/5/2007	16:00		130.532	127.124	107.577	111.415	103.152	118.577			
3/5/2007	16:30		130.526	127.127	107.579	111.419	103.154	118.579			
3/5/2007	17:00		130.528	127.124	107.577	111.417	103.154	118.577			
3/5/2007	17:30		130.535	127.12	107.57	111.413	103.15	118.573			
3/5/2007	18:00		130.539	127.12	107.575	111.417	103.154	118.575			
3/5/2007	18:30		130.546	127.127	107.582	111.425	103.159	118.581			
3/5/2007	19:00		130.548	127.131	107.587	111.426	103.161	118.583			
3/5/2007	19:30		130.555	127.141	107.594	111.438	103.171	118.594			
3/5/2007	20:00		130.551	127.141	107.598	111.438	103.176	118.596			
3/5/2007	20:30		130.541	127.147	107.606	111.442	103.178	118.599			
3/5/2007	21:00		130.541	127.143	107.598	111.444	103.178	118.601			
3/5/2007	21:30		130.539	127.136	107.589	111.432	103.169	118.59			
3/5/2007	22:00		130.541	127.136	107.589	111.428	103.166	118.588			
3/5/2007	22:30		130.535	127.134	107.589	111.428	103.166	118.588			
3/5/2007	23:00		130.526	127.136	107.589	111.432	103.166	118.59			
3/5/2007	23:30		130.517	127.129	107.58	111.423	103.161	118.586			
3/6/2007	0:00		130.507	127.12	107.572	111.413	103.152	118.577			
3/6/2007	0:30		130.492	127.11	107.564	111.406	103.14	118.569			
3/6/2007	1:00		130.485	127.099	107.551	111.398	103.133	118.56			
3/6/2007	1:30		130.476	127.085	107.539	111.385	103.121	118.547			
3/6/2007	2:00		130.467	127.076	107.532	111.371	103.107	118.536			
3/6/2007	2:30		130.453	127.069	107.525	111.364	103.102	118.528			
3/6/2007	3:00		130.437	127.06	107.513	111.358	103.091	118.517			
3/6/2007	3:30		130.426	127.046	107.497	111.343	103.079	118.506			
3/6/2007	4:00		130.414	127.032	107.484	111.329	103.065	118.489			
3/6/2007	4:30		130.403	127.018	107.472	111.314	103.048	118.472			
3/6/2007	5:00		130.399	127.006	107.458	111.303	103.039	118.462			
3/6/2007	5:30		130.387	126.997	107.449	111.293	103.029	118.449			
3/6/2007	6:00		130.376	126.99	107.444	111.284	103.02	118.442			
3/6/2007	6:30		130.369	126.981	107.432	111.278	103.015	118.434			
3/6/2007	7:00		132.107	126.969	107.425	111.266	103.001	118.421			
3/6/2007	7:30		132.259	126.96	107.415	111.255	102.994	118.412			
3/6/2007	8:00		132.341	128.105	107.945	111.581	103.435	118.795			
3/6/2007	8:30		132.397	128.253	108.07	111.733	103.591	118.906			
3/6/2007	9:00		132.418	128.339	108.144	111.817	103.675	118.96			
3/6/2007	9:30		132.45	128.394	108.19	111.868	103.73	118.996			
3/6/2007	10:00		132.456	128.418	108.213	111.897	103.758	119.06			
3/6/2007	10:30		132.465	128.448	108.242	111.922	103.786	119.081			
3/6/2007	11:00		132.461	128.461	108.25	111.942	103.805	119.094			
3/6/2007	11:30		132.463	128.471	108.264	111.952	103.815	119.148			
3/6/2007	12:00		130.802	128.466	108.259	111.954	103.815	119.189			
3/6/2007	12:30		130.63	128.471	108.27	111.956	103.819	119.188			
3/6/2007	13:00		130.551	127.383	107.775	111.672	103.423	118.819			
3/6/2007	13:30		130.496	127.217	107.639	111.506	103.246	118.66			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/6/2007	14:00		130.469	127.136	107.568	111.43	103.168	118.583			
3/6/2007	14:30		130.442	127.085	107.527	111.381	103.119	118.532			
3/6/2007	15:00		130.424	127.053	107.497	111.348	103.086	118.5			
3/6/2007	15:30		130.419	127.029	107.475	111.327	103.067	118.481			
3/6/2007	16:00		130.403	127.011	107.459	111.307	103.046	118.459			
3/6/2007	16:30		130.399	127.006	107.454	111.305	103.041	118.455			
3/6/2007	17:00		130.396	126.992	107.442	111.291	103.029	118.44			
3/6/2007	17:30		130.399	126.988	107.439	111.287	103.022	118.434			
3/6/2007	18:00		130.403	126.992	107.44	111.283	103.02	118.432			
3/6/2007	18:30		130.417	126.986	107.441	111.287	103.022	118.436			
3/6/2007	19:00		130.437	126.99	107.448	111.289	103.022	118.438			
3/6/2007	19:30		130.453	127.011	107.465	111.299	103.034	118.448			
3/6/2007	20:00		130.46	127.032	107.485	111.324	103.06	118.472			
3/6/2007	20:30		130.471	127.046	107.499	111.339	103.077	118.487			
3/6/2007	21:00		130.483	127.055	107.508	111.348	103.086	118.496			
3/6/2007	21:30		130.498	127.067	107.518	111.358	103.095	118.504			
3/6/2007	22:00		130.498	127.078	107.532	111.367	103.105	118.515			
3/6/2007	22:30		130.496	127.094	107.546	111.386	103.126	118.534			
3/6/2007	23:00		130.505	127.094	107.544	111.384	103.126	118.532			
3/6/2007	23:30		130.501	127.094	107.546	111.383	103.124	118.534			
3/7/2007	0:00		130.505	127.104	107.556	111.388	103.128	118.538			
3/7/2007	0:30		130.503	127.101	107.552	111.388	103.131	118.539			
3/7/2007	1:00		130.503	127.106	107.554	111.392	103.133	118.541			
3/7/2007	1:30		130.503	127.104	107.554	111.388	103.128	118.539			
3/7/2007	2:00		130.501	127.101	107.553	111.392	103.131	118.545			
3/7/2007	2:30		130.489	127.101	107.552	111.394	103.135	118.543			
3/7/2007	3:00		130.487	127.099	107.549	111.388	103.131	118.541			
3/7/2007	3:30		130.48	127.09	107.541	111.379	103.119	118.532			
3/7/2007	4:00		130.487	127.085	107.535	111.377	103.119	118.53			
3/7/2007	4:30		130.485	127.08	107.534	111.367	103.107	118.521			
3/7/2007	5:00		130.492	127.09	107.541	111.377	103.116	118.528			
3/7/2007	5:30		130.501	127.087	107.537	111.377	103.116	118.53			
3/7/2007	6:00		130.507	127.094	107.547	111.383	103.121	118.534			
3/7/2007	6:30		130.514	127.104	107.554	111.392	103.135	118.545			
3/7/2007	7:00		132.195	127.113	107.564	111.396	103.138	118.549			
3/7/2007	7:30		132.402	127.117	107.57	111.405	103.145	118.558			
3/7/2007	8:00		132.497	128.337	108.1	111.695	103.558	118.915			
3/7/2007	8:30		132.547	128.545	108.264	111.905	103.777	119.073			
3/7/2007	9:00		132.583	128.642	108.347	112.002	103.878	119.146			
3/7/2007	9:30		132.615	128.684	108.39	112.059	103.933	119.306			
3/7/2007	10:00		132.624	128.721	108.423	112.091	103.968	119.334			
3/7/2007	10:30		132.649	128.753	108.454	112.12	103.999	119.359			
3/7/2007	11:00		132.663	128.762	108.464	112.131	104.008	119.366			
3/7/2007	11:30		132.679	128.788	108.49	112.154	104.034	119.385			
3/7/2007	12:00		132.679	128.804	108.509	112.171	104.048	119.398			
3/7/2007	12:30		132.679	128.818	108.52	112.192	104.067	119.411			
3/7/2007	13:00		132.667	128.82	108.518	112.194	104.072	119.417			
3/7/2007	13:30		131.036	128.818	108.514	112.194	104.069	119.409			
3/7/2007	14:00		130.83	128.809	108.504	112.181	104.058	119.394			
3/7/2007	14:30		130.737	127.619	107.999	111.92	103.676	119.075			
3/7/2007	15:00		130.678	127.42	107.842	111.714	103.461	118.874			
3/7/2007	15:30		130.646	127.33	107.763	111.621	103.362	118.784			
3/7/2007	16:00		130.616	127.268	107.714	111.566	103.308	118.731			
3/7/2007	16:30		130.598	127.238	107.682	111.533	103.275	118.695			
3/7/2007	17:00		130.569	127.21	107.658	111.503	103.244	118.671			
3/7/2007	17:30		130.573	127.187	107.635	111.483	103.223	118.65			
3/7/2007	18:00		130.571	127.161	107.609	111.461	103.192	118.626			
3/7/2007	18:30		130.562	127.159	107.606	111.447	103.185	118.615			
3/7/2007	19:00		130.555	127.157	107.602	111.444	103.183	118.613			
3/7/2007	19:30		130.546	127.147	107.594	111.438	103.176	118.603			
3/7/2007	20:00		130.544	127.141	107.587	111.43	103.166	118.596			
3/7/2007	20:30		130.544	127.134	107.58	111.425	103.161	118.59			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/7/2007	21:00		130.544	127.129	107.577	111.419	103.154	118.584			
3/7/2007	21:30		130.537	127.129	107.58	111.421	103.157	118.588			
3/7/2007	22:00		130.535	127.129	107.58	111.425	103.159	118.588			
3/7/2007	22:30		130.53	127.124	107.573	111.417	103.152	118.583			
3/7/2007	23:00		130.517	127.122	107.57	111.415	103.152	118.579			
3/7/2007	23:30		130.505	127.117	107.566	111.409	103.145	118.573			
3/8/2007	0:00		130.498	127.104	107.552	111.4	103.136	118.566			
3/8/2007	0:30		130.494	127.092	107.539	111.383	103.119	118.551			
3/8/2007	1:00		130.487	127.087	107.537	111.377	103.114	118.543			
3/8/2007	1:30		130.48	127.078	107.527	111.373	103.11	118.537			
3/8/2007	2:00		130.469	127.073	107.521	111.366	103.102	118.53			
3/8/2007	2:30		130.46	127.067	107.516	111.358	103.095	118.522			
3/8/2007	3:00		130.446	127.055	107.504	111.352	103.088	118.515			
3/8/2007	3:30		130.435	127.046	107.494	111.337	103.077	118.504			
3/8/2007	4:00		130.43	127.029	107.48	111.326	103.062	118.493			
3/8/2007	4:30		130.426	127.023	107.472	111.314	103.05	118.479			
3/8/2007	5:00		130.426	127.016	107.468	111.308	103.046	118.474			
3/8/2007	5:30		130.426	127.013	107.463	111.307	103.044	118.472			
3/8/2007	6:00		130.426	127.013	107.465	111.307	103.044	118.47			
3/8/2007	6:30		130.405	127.013	107.465	111.307	103.041	118.47			
3/8/2007	7:00		132.066	127.013	107.465	111.307	103.041	118.468			
3/8/2007	7:30		132.273	126.997	107.449	111.301	103.034	118.46			
3/8/2007	8:00		132.311	128.071	107.937	111.556	103.404	118.804			
3/8/2007	8:30		132.348	128.269	108.092	111.756	103.612	118.973			
3/8/2007	9:00		132.368	128.334	108.158	111.84	103.697	119.037			
3/8/2007	9:30		132.391	128.374	108.195	111.876	103.734	119.06			
3/8/2007	10:00		132.386	128.397	108.216	111.902	103.758	119.075			
3/8/2007	10:30		132.393	128.422	108.237	111.927	103.784	119.09			
3/8/2007	11:00		130.764	128.422	108.24	111.933	103.791	119.09			
3/8/2007	11:30		130.61	128.429	108.25	111.943	103.8	119.088			
3/8/2007	12:00		130.537	127.351	107.749	111.642	103.393	118.77			
3/8/2007	12:30		130.494	127.203	107.625	111.487	103.227	118.628			
3/8/2007	13:00		130.453	127.129	107.559	111.415	103.157	118.56			
3/8/2007	13:30		130.424	127.087	107.521	111.373	103.112	118.517			
3/8/2007	14:00		130.399	127.046	107.484	111.339	103.074	118.481			
3/8/2007	14:30		130.369	127.018	107.458	111.307	103.044	118.449			
3/8/2007	15:00		130.351	126.992	107.435	111.284	103.02	118.427			
3/8/2007	15:30		130.337	126.955	107.408	111.257	102.992	118.398			
3/8/2007	16:00		130.326	126.937	107.387	111.24	102.97	118.38			
3/8/2007	16:30		130.317	126.923	107.375	111.227	102.959	118.367			
3/8/2007	17:00		130.31	126.914	107.37	111.217	102.949	118.357			
3/8/2007	17:30		130.301	126.907	107.361	111.211	102.942	118.35			
3/8/2007	18:00		130.303	126.9	107.353	111.203	102.937	118.34			
3/8/2007	18:30		130.31	126.891	107.344	111.194	102.928	118.331			
3/8/2007	19:00		130.319	126.893	107.347	111.196	102.928	118.331			
3/8/2007	19:30		130.326	126.898	107.356	111.203	102.937	118.338			
3/8/2007	20:00		130.331	126.909	107.367	111.213	102.944	118.346			
3/8/2007	20:30		130.34	126.914	107.373	111.219	102.952	118.35			
3/8/2007	21:00		130.344	126.918	107.38	111.225	102.956	118.352			
3/8/2007	21:30		130.344	126.93	107.389	111.234	102.963	118.361			
3/8/2007	22:00		130.342	126.937	107.396	111.242	102.97	118.369			
3/8/2007	22:30		130.342	126.935	107.394	111.242	102.975	118.369			
3/8/2007	23:00		130.344	126.935	107.39	111.238	102.968	118.363			
3/8/2007	23:30		130.34	126.935	107.39	111.24	102.973	118.365			
3/9/2007	0:00		130.333	126.935	107.394	111.24	102.973	118.363			
3/9/2007	0:30		130.326	126.93	107.389	111.234	102.968	118.355			
3/9/2007	1:00		130.326	126.923	107.38	111.228	102.963	118.348			
3/9/2007	1:30		130.324	126.918	107.375	111.225	102.959	118.342			
3/9/2007	2:00		130.324	126.916	107.373	111.217	102.952	118.335			
3/9/2007	2:30		130.324	126.914	107.37	111.219	102.949	118.333			
3/9/2007	3:00		130.312	126.912	107.37	111.217	102.949	118.333			
3/9/2007	3:30		130.31	126.912	107.37	111.221	102.952	118.333			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/9/2007	4:00		130.299	126.902	107.36	111.211	102.942	118.322			
3/9/2007	4:30		130.326	126.9	107.358	111.211	102.942	118.321			
3/9/2007	5:00		130.324	126.888	107.348	111.19	102.923	118.303			
3/9/2007	5:30		130.353	126.921	107.386	111.209	102.94	118.318			
3/9/2007	6:00		130.371	126.916	107.378	111.215	102.947	118.323			
3/9/2007	6:30		130.396	126.944	107.404	111.247	102.977	118.35			
3/9/2007	7:00		132.193	126.965	107.432	111.263	102.994	118.367			
3/9/2007	7:30		132.329	127.427	107.709	111.291	103.022	118.393			
3/9/2007	8:00		132.411	128.318	108.064	111.697	103.558	118.921			
3/9/2007	8:30		132.47	128.455	108.18	111.832	103.702	119.022			
3/9/2007	9:00		132.506	128.542	108.257	111.914	103.784	119.082			
3/9/2007	9:30		132.545	128.6	108.308	111.975	103.845	119.127			
3/9/2007	10:00		132.579	128.637	108.342	112.013	103.885	119.152			
3/9/2007	10:30		132.599	128.679	108.382	112.051	103.925	119.182			
3/9/2007	11:00		131.063	128.711	108.412	112.084	103.958	119.21			
3/9/2007	11:30		130.805	128.734	108.437	112.108	103.982	119.229			
3/9/2007	12:00		130.705	127.636	107.996	111.945	103.716	119.037			
3/9/2007	12:30		130.662	127.393	107.813	111.691	103.435	118.818			
3/9/2007	13:00		130.623	127.298	107.735	111.592	103.329	118.726			
3/9/2007	13:30		130.589	127.249	107.689	111.545	103.282	118.684			
3/9/2007	14:00		130.566	127.212	107.656	111.51	103.244	118.649			
3/9/2007	14:30		130.705	127.182	107.63	111.48	103.216	118.62			
3/9/2007	15:00		130.596	127.159	107.608	111.461	103.194	118.602			
3/9/2007	15:30		130.571	127.284	107.701	111.598	103.35	118.737			
3/9/2007	16:00		130.557	127.187	107.634	111.495	103.23	118.633			
3/9/2007	16:30		130.557	127.164	107.616	111.466	103.199	118.605			
3/9/2007	17:00		130.551	127.15	107.601	111.449	103.185	118.592			
3/9/2007	17:30		130.535	127.145	107.599	111.442	103.176	118.583			
3/9/2007	18:00		130.551	127.143	107.596	111.447	103.18	118.59			
3/9/2007	18:30		130.566	127.124	107.583	111.428	103.164	118.573			
3/9/2007	19:00		130.566	127.143	107.606	111.442	103.178	118.587			
3/9/2007	19:30		130.557	127.161	107.621	111.459	103.192	118.602			
3/9/2007	20:00		130.56	127.157	107.616	111.463	103.199	118.627			
3/9/2007	20:30		130.564	127.152	107.611	111.455	103.192	118.619			
3/9/2007	21:00		130.564	127.154	107.613	111.455	103.19	118.617			
3/9/2007	21:30		130.557	127.157	107.614	111.459	103.192	118.622			
3/9/2007	22:00		130.557	127.157	107.614	111.459	103.194	118.622			
3/9/2007	22:30		130.544	127.154	107.613	111.453	103.187	118.618			
3/9/2007	23:00		130.53	127.15	107.608	111.455	103.19	118.618			
3/9/2007	23:30		130.519	127.138	107.594	111.442	103.178	118.609			
3/10/2007	0:00		130.517	127.122	107.579	111.426	103.161	118.594			
3/10/2007	0:30		130.505	127.113	107.568	111.415	103.15	118.581			
3/10/2007	1:00		130.492	127.11	107.565	111.409	103.143	118.575			
3/10/2007	1:30		130.476	127.101	107.556	111.402	103.133	118.568			
3/10/2007	2:00		130.469	127.087	107.542	111.39	103.121	118.557			
3/10/2007	2:30		130.478	127.067	107.521	111.373	103.105	118.541			
3/10/2007	3:00		130.476	127.064	107.522	111.36	103.095	118.528			
3/10/2007	3:30		130.478	127.073	107.53	111.373	103.105	118.538			
3/10/2007	4:00		130.476	127.069	107.525	111.367	103.105	118.538			
3/10/2007	4:30		130.476	127.071	107.528	111.367	103.102	118.536			
3/10/2007	5:00		130.471	127.069	107.525	111.369	103.105	118.538			
3/10/2007	5:30		130.46	127.069	107.527	111.373	103.105	118.54			
3/10/2007	6:00		130.455	127.064	107.52	111.366	103.1	118.534			
3/10/2007	6:30		130.464	127.053	107.511	111.356	103.088	118.523			
3/10/2007	7:00		130.48	127.05	107.506	111.346	103.081	118.515			
3/10/2007	7:30		130.483	127.06	107.518	111.356	103.088	118.525			
3/10/2007	8:00		130.487	127.076	107.535	111.373	103.107	118.54			
3/10/2007	8:30		132.259	127.075	107.535	111.379	103.11	118.545			
3/10/2007	9:00		132.402	127.083	107.696	111.383	103.114	118.551			
3/10/2007	9:30		132.477	128.387	108.135	111.76	103.621	119.039			
3/10/2007	10:00		132.515	128.533	108.252	111.904	103.775	119.178			
3/10/2007	10:30		132.545	128.61	108.313	111.977	103.848	119.238			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/10/2007	11:00		132.563	128.649	108.35	112.017	103.893	119.276			
3/10/2007	11:30		132.577	128.681	108.38	112.047	103.921	119.298			
3/10/2007	12:00		132.59	128.7	108.395	112.065	103.942	119.314			
3/10/2007	12:30		132.602	128.711	108.411	112.082	103.956	119.323			
3/10/2007	13:00		132.604	128.725	108.419	112.093	103.968	119.332			
3/10/2007	13:30		132.595	128.734	108.431	112.103	103.98	119.336			
3/10/2007	14:00		132.59	128.734	108.431	112.108	103.985	119.338			
3/10/2007	14:30		132.595	128.728	108.427	112.101	103.977	119.326			
3/10/2007	15:00		130.961	128.725	108.425	112.099	103.973	119.317			
3/10/2007	15:30		130.768	128.732	108.43	112.104	103.977	119.321			
3/10/2007	16:00		130.68	127.541	107.925	111.836	103.593	118.992			
3/10/2007	16:30		130.635	127.356	107.776	111.649	103.39	118.806			
3/10/2007	17:00		130.605	127.27	107.704	111.563	103.303	118.722			
3/10/2007	17:30		130.591	127.221	107.663	111.512	103.253	118.675			
3/10/2007	18:00		130.582	127.196	107.642	111.491	103.23	118.648			
3/10/2007	18:30		130.58	127.18	107.63	111.478	103.213	118.637			
3/10/2007	19:00		130.578	127.171	107.623	111.468	103.204	118.628			
3/10/2007	19:30		130.576	127.171	107.625	111.47	103.202	118.628			
3/10/2007	20:00		130.566	127.168	107.623	111.468	103.199	118.624			
3/10/2007	20:30		130.564	127.168	107.62	111.47	103.202	118.626			
3/10/2007	21:00		130.56	127.159	107.613	111.459	103.192	118.618			
3/10/2007	21:30		130.537	127.154	107.61	111.461	103.192	118.617			
3/10/2007	22:00		130.535	127.15	107.604	111.449	103.183	118.609			
3/10/2007	22:30		130.528	127.129	107.585	111.426	103.159	118.586			
3/10/2007	23:00		130.523	127.127	107.585	111.432	103.164	118.588			
3/10/2007	23:30		130.532	127.12	107.573	111.424	103.157	118.583			
3/11/2007	0:00		130.539	127.115	107.573	111.415	103.147	118.575			
3/11/2007	0:30		130.539	127.124	107.583	111.424	103.157	118.584			
3/11/2007	1:00		130.537	127.134	107.59	111.432	103.166	118.592			
3/11/2007	1:30		130.53	127.134	107.589	111.434	103.166	118.596			
3/11/2007	2:00		130.528	127.131	107.585	111.428	103.164	118.594			
3/11/2007	2:30		130.517	127.124	107.582	111.424	103.159	118.588			
3/11/2007	3:00		130.505	127.122	107.577	111.421	103.152	118.583			
3/11/2007	3:30		130.489	127.11	107.566	111.413	103.147	118.575			
3/11/2007	4:00		130.471	127.099	107.552	111.402	103.133	118.566			
3/11/2007	4:30		130.458	127.083	107.537	111.388	103.124	118.56			
3/11/2007	5:00		130.467	127.064	107.516	111.363	103.098	118.528			
3/11/2007	5:30		130.489	127.05	107.504	111.352	103.084	118.517			
3/11/2007	6:00		130.494	127.06	107.522	111.36	103.091	118.524			
3/11/2007	6:30		130.492	127.083	107.544	111.385	103.117	118.549			
3/11/2007	7:00		130.492	127.087	107.547	111.386	103.119	118.551			
3/11/2007	7:30		130.485	127.09	107.546	111.388	103.124	118.553			
3/11/2007	8:00		132.141	127.087	107.544	111.384	103.121	118.551			
3/11/2007	8:30		132.325	127.08	107.537	111.379	103.114	118.547			
3/11/2007	9:00		132.409	128.151	108.023	111.645	103.492	118.913			
3/11/2007	9:30		132.447	128.332	108.166	111.828	103.685	119.084			
3/11/2007	10:00		132.486	128.418	108.237	111.916	103.777	119.167			
3/11/2007	10:30		132.511	128.459	108.275	111.956	103.819	119.201			
3/11/2007	11:00		132.518	128.496	108.313	111.996	103.857	119.231			
3/11/2007	11:30		132.527	128.522	108.331	112.019	103.883	119.249			
3/11/2007	12:00		130.83	128.531	108.34	112.032	103.893	119.257			
3/11/2007	12:30		130.693	128.54	108.219	112.04	103.9	119.261			
3/11/2007	13:00		130.619	127.414	107.821	111.71	103.456	118.872			
3/11/2007	13:30		130.578	127.282	107.713	111.573	103.315	118.737			
3/11/2007	14:00		130.548	127.21	107.649	111.504	103.244	118.667			
3/11/2007	14:30		130.526	127.168	107.613	111.465	103.202	118.626			
3/11/2007	15:00		130.501	127.138	107.585	111.438	103.171	118.596			
3/11/2007	15:30		130.483	127.115	107.561	111.415	103.152	118.577			
3/11/2007	16:00		130.469	127.09	107.544	111.388	103.124	118.549			
3/11/2007	16:30		130.46	127.071	107.523	111.373	103.11	118.534			
3/11/2007	17:00		130.462	127.06	107.514	111.358	103.095	118.519			
3/11/2007	17:30		130.462	127.053	107.508	111.354	103.088	118.515			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/11/2007	18:00		130.458	127.055	107.509	111.348	103.084	118.511			
3/11/2007	18:30		130.448	127.053	107.509	111.348	103.084	118.511			
3/11/2007	19:00		130.446	127.05	107.504	111.348	103.081	118.509			
3/11/2007	19:30		130.442	127.039	107.494	111.341	103.074	118.504			
3/11/2007	20:00		130.437	127.036	107.492	111.339	103.072	118.5			
3/11/2007	20:30		130.426	127.032	107.487	111.333	103.065	118.494			
3/11/2007	21:00		130.448	127.027	107.484	111.329	103.065	118.491			
3/11/2007	21:30		130.451	127.018	107.477	111.318	103.051	118.479			
3/11/2007	22:00		130.451	127.041	107.496	111.341	103.072	118.498			
3/11/2007	22:30		130.442	127.043	107.504	111.348	103.084	118.51			
3/11/2007	23:00		130.424	127.043	107.502	111.345	103.079	118.506			
3/11/2007	23:30		130.405	127.034	107.487	111.339	103.069	118.498			
3/12/2007	0:00		130.396	127.013	107.47	111.32	103.051	118.479			
3/12/2007	0:30		130.399	126.999	107.452	111.301	103.034	118.463			
3/12/2007	1:00		130.405	126.986	107.44	111.293	103.025	118.453			
3/12/2007	1:30		130.387	126.992	107.451	111.293	103.025	118.453			
3/12/2007	2:00		130.385	126.997	107.452	111.297	103.029	118.461			
3/12/2007	2:30		130.374	126.979	107.433	111.28	103.013	118.442			
3/12/2007	3:00		130.374	126.976	107.433	111.283	103.015	118.444			
3/12/2007	3:30		130.371	126.965	107.421	111.27	103.003	118.431			
3/12/2007	4:00		130.365	126.969	107.421	111.27	103.003	118.429			
3/12/2007	4:30		130.36	126.962	107.418	111.268	103.001	118.429			
3/12/2007	5:00		130.369	126.958	107.415	111.261	102.992	118.419			
3/12/2007	5:30		130.365	126.955	107.411	111.257	102.989	118.418			
3/12/2007	6:00		132.091	126.962	107.421	111.263	102.996	118.423			
3/12/2007	6:30		132.268	126.958	107.418	111.259	102.989	118.416			
3/12/2007	7:00		132.357	128.219	107.982	111.596	103.454	118.85			
3/12/2007	7:30		132.393	128.399	108.126	111.779	103.645	119.007			
3/12/2007	8:00		132.418	128.485	108.197	111.861	103.727	119.069			
3/12/2007	8:30		132.443	128.522	108.231	111.901	103.772	119.096			
3/12/2007	9:00		130.841	128.552	108.254	111.931	103.801	119.113			
3/12/2007	9:30		130.632	128.577	108.283	111.952	103.827	119.128			
3/12/2007	10:00		130.553	127.42	107.799	111.718	103.475	118.853			
3/12/2007	10:30		130.519	127.221	107.644	111.516	103.256	118.662			
3/12/2007	11:00		130.483	127.143	107.584	111.434	103.171	118.583			
3/12/2007	11:30		130.458	127.11	107.552	111.405	103.138	118.555			
3/12/2007	12:00		130.439	127.071	107.518	111.373	103.107	118.521			
3/12/2007	12:30		130.424	127.048	107.496	111.35	103.084	118.5			
3/12/2007	13:00		130.399	127.029	107.48	111.329	103.062	118.479			
3/12/2007	13:30		130.38	127.013	107.463	111.316	103.048	118.464			
3/12/2007	14:00		130.367	126.99	107.437	111.293	103.027	118.44			
3/12/2007	14:30		130.355	126.969	107.423	111.274	103.006	118.421			
3/12/2007	15:00		130.344	126.955	107.411	111.257	102.989	118.402			
3/12/2007	15:30		130.344	126.946	107.397	111.249	102.982	118.395			
3/12/2007	16:00		130.335	126.935	107.389	111.238	102.966	118.382			
3/12/2007	16:30		130.326	126.935	107.387	111.236	102.968	118.38			
3/12/2007	17:00		130.331	126.925	107.378	111.23	102.959	118.374			
3/12/2007	17:30		130.331	126.916	107.371	111.217	102.949	118.365			
3/12/2007	18:00		130.333	126.921	107.377	111.224	102.956	118.367			
3/12/2007	18:30		130.34	126.923	107.379	111.225	102.956	118.37			
3/12/2007	19:00		130.342	126.925	107.384	111.23	102.959	118.372			
3/12/2007	19:30		130.344	126.93	107.387	111.236	102.968	118.38			
3/12/2007	20:00		130.349	126.932	107.389	111.236	102.968	118.38			
3/12/2007	20:30		130.349	126.937	107.394	111.24	102.973	118.383			
3/12/2007	21:00		130.349	126.942	107.399	111.246	102.977	118.387			
3/12/2007	21:30		130.351	126.942	107.399	111.246	102.975	118.387			
3/12/2007	22:00		130.351	126.942	107.398	111.246	102.977	118.387			
3/12/2007	22:30		130.346	126.944	107.401	111.246	102.977	118.387			
3/12/2007	23:00		130.34	126.944	107.403	111.247	102.98	118.391			
3/12/2007	23:30		130.333	126.942	107.397	111.244	102.975	118.385			
3/13/2007	0:00		130.324	126.932	107.389	111.238	102.97	118.378			
3/13/2007	0:30		130.324	126.925	107.384	111.23	102.963	118.371			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/13/2007	1:00		130.324	126.916	107.373	111.221	102.954	118.361			
3/13/2007	1:30		130.324	126.916	107.373	111.219	102.949	118.356			
3/13/2007	2:00		130.326	126.916	107.377	111.219	102.949	118.359			
3/13/2007	2:30		130.324	126.918	107.377	111.226	102.952	118.359			
3/13/2007	3:00		130.312	126.918	107.379	111.221	102.952	118.359			
3/13/2007	3:30		130.315	126.916	107.373	111.221	102.952	118.359			
3/13/2007	4:00		130.312	126.907	107.363	111.209	102.937	118.348			
3/13/2007	4:30		130.315	126.907	107.365	111.211	102.94	118.348			
3/13/2007	5:00		130.321	126.907	107.365	111.209	102.942	118.346			
3/13/2007	5:30		130.324	126.909	107.367	111.211	102.942	118.348			
3/13/2007	6:00		131.68	126.912	107.37	111.215	102.944	118.352			
3/13/2007	6:30		132.136	126.916	107.373	111.219	102.949	118.354			
3/13/2007	7:00		132.254	127.735	107.722	111.223	102.954	118.357			
3/13/2007	7:30		132.311	128.133	107.97	111.623	103.475	118.761			
3/13/2007	8:00		132.348	128.251	108.069	111.743	103.598	118.919			
3/13/2007	8:30		132.372	128.311	108.121	111.802	103.661	118.97			
3/13/2007	9:00		132.386	128.348	108.154	111.842	103.699	119.004			
3/13/2007	9:30		132.402	128.374	108.177	111.866	103.723	119.022			
3/13/2007	10:00		132.402	128.394	108.199	111.884	103.741	119.039			
3/13/2007	10:30		130.825	128.408	108.211	111.905	103.763	119.052			
3/13/2007	11:00		130.596	128.408	108.213	111.91	103.77	119.054			
3/13/2007	11:30		130.51	127.397	107.773	111.706	103.463	118.786			
3/13/2007	12:00		130.462	127.18	107.601	111.483	103.22	118.558			
3/13/2007	12:30		130.43	127.097	107.533	111.394	103.128	118.47			
3/13/2007	13:00		130.396	127.048	107.492	111.346	103.081	118.41			
3/13/2007	13:30		130.374	127.018	107.465	111.32	103.053	118.378			
3/13/2007	14:00		130.358	126.983	107.432	111.289	103.025	118.352			
3/13/2007	14:30		130.34	126.962	107.411	111.267	102.999	118.324			
3/13/2007	15:00		130.333	126.944	107.399	111.251	102.987	118.308			
3/13/2007	15:30		130.319	126.928	107.38	111.23	102.963	118.29			
3/13/2007	16:00		130.312	126.921	107.37	111.225	102.956	118.28			
3/13/2007	16:30		130.31	126.909	107.361	111.213	102.944	118.269			
3/13/2007	17:00		130.312	126.902	107.358	111.207	102.937	118.26			
3/13/2007	17:30		130.308	126.9	107.352	111.203	102.933	118.258			
3/13/2007	18:00		130.315	126.898	107.353	111.204	102.935	118.254			
3/13/2007	18:30		130.319	126.898	107.354	111.2	102.93	118.252			
3/13/2007	19:00		130.328	126.902	107.361	111.209	102.94	118.258			
3/13/2007	19:30		130.333	126.912	107.368	111.213	102.944	118.261			
3/13/2007	20:00		130.335	126.916	107.375	111.223	102.952	118.269			
3/13/2007	20:30		130.349	126.923	107.384	111.228	102.959	118.273			
3/13/2007	21:00		130.344	126.925	107.384	111.23	102.961	118.275			
3/13/2007	21:30		130.342	126.939	107.397	111.245	102.977	118.288			
3/13/2007	22:00		130.344	126.935	107.392	111.24	102.97	118.282			
3/13/2007	22:30		130.344	126.932	107.39	111.238	102.968	118.28			
3/13/2007	23:00		130.342	126.935	107.391	111.238	102.97	118.278			
3/13/2007	23:30		130.331	126.935	107.392	111.24	102.973	118.279			
3/14/2007	0:00		130.321	126.93	107.389	111.238	102.97	118.277			
3/14/2007	0:30		130.312	126.921	107.377	111.228	102.961	118.263			
3/14/2007	1:00		130.312	126.914	107.37	111.217	102.949	118.252			
3/14/2007	1:30		130.319	126.902	107.359	111.207	102.94	118.239			
3/14/2007	2:00		130.312	126.905	107.363	111.213	102.944	118.245			
3/14/2007	2:30		130.306	126.912	107.37	111.219	102.952	118.247			
3/14/2007	3:00		130.303	126.905	107.363	111.215	102.944	118.243			
3/14/2007	3:30		130.315	126.895	107.351	111.205	102.935	118.23			
3/14/2007	4:00		130.315	126.898	107.356	111.202	102.933	118.226			
3/14/2007	4:30		130.317	126.907	107.365	111.211	102.947	118.239			
3/14/2007	5:00		130.312	126.912	107.37	111.215	102.947	118.243			
3/14/2007	5:30		130.317	126.909	107.368	111.217	102.947	118.243			
3/14/2007	6:00		131.975	126.905	107.365	111.213	102.944	118.237			
3/14/2007	6:30		132.198	126.909	107.368	111.217	102.949	118.241			
3/14/2007	7:00		132.295	128.103	107.882	111.472	103.327	118.6			
3/14/2007	7:30		132.377	128.323	108.054	111.699	103.565	118.846			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/14/2007	8:00		132.416	128.422	108.144	111.798	103.668	118.938			
3/14/2007	8:30		132.452	128.505	108.219	111.883	103.756	119.067			
3/14/2007	9:00		132.461	128.545	108.244	111.925	103.796	119.101			
3/14/2007	9:30		132.484	128.584	108.281	111.95	103.819	119.12			
3/14/2007	10:00		132.502	128.593	108.3	111.971	103.843	119.137			
3/14/2007	10:30		132.538	128.614	108.318	111.99	103.862	119.156			
3/14/2007	11:00		130.834	128.637	108.342	112.011	103.881	119.173			
3/14/2007	11:30		130.68	128.67	108.376	112.045	103.916	119.356			
3/14/2007	12:00		130.607	127.416	107.814	111.727	103.475	118.907			
3/14/2007	12:30		130.569	127.268	107.699	111.562	103.301	118.735			
3/14/2007	13:00		130.53	127.194	107.627	111.491	103.23	118.666			
3/14/2007	13:30		130.51	127.159	107.601	111.459	103.194	118.628			
3/14/2007	14:00		130.483	127.117	107.568	111.428	103.161	118.594			
3/14/2007	14:30		130.464	127.099	107.551	111.405	103.138	118.575			
3/14/2007	15:00		130.453	127.073	107.527	111.383	103.117	118.551			
3/14/2007	15:30		130.446	127.055	107.511	111.362	103.098	118.53			
3/14/2007	16:00		130.46	127.041	107.496	111.354	103.088	118.523			
3/14/2007	16:30		130.455	127.034	107.492	111.337	103.074	118.51			
3/14/2007	17:00		130.46	127.048	107.504	111.354	103.088	118.523			
3/14/2007	17:30		130.467	127.046	107.503	111.354	103.088	118.525			
3/14/2007	18:00		130.492	127.05	107.513	111.358	103.091	118.526			
3/14/2007	18:30		130.496	127.057	107.516	111.367	103.1	118.536			
3/14/2007	19:00		130.501	127.083	107.544	111.396	103.126	118.562			
3/14/2007	19:30		130.496	127.09	107.551	111.402	103.138	118.572			
3/14/2007	20:00		130.501	127.09	107.548	111.402	103.136	118.572			
3/14/2007	20:30		130.503	127.09	107.549	111.392	103.126	118.562			
3/14/2007	21:00		130.494	127.092	107.556	111.403	103.14	118.573			
3/14/2007	21:30		130.485	127.094	107.558	111.4	103.133	118.57			
3/14/2007	22:00		130.492	127.087	107.549	111.392	103.126	118.564			
3/14/2007	22:30		130.483	127.078	107.535	111.384	103.119	118.558			
3/14/2007	23:00		130.478	127.083	107.546	111.39	103.121	118.56			
3/14/2007	23:30		130.478	127.076	107.537	111.384	103.119	118.556			
3/15/2007	0:00		130.471	127.071	107.535	111.371	103.107	118.543			
3/15/2007	0:30		130.46	127.071	107.53	111.375	103.112	118.549			
3/15/2007	1:00		130.46	127.064	107.522	111.375	103.11	118.545			
3/15/2007	1:30		130.462	127.053	107.513	111.36	103.093	118.534			
3/15/2007	2:00		130.444	127.053	107.511	111.36	103.093	118.532			
3/15/2007	2:30		130.437	127.053	107.511	111.362	103.093	118.534			
3/15/2007	3:00		130.426	127.036	107.497	111.343	103.081	118.517			
3/15/2007	3:30		130.417	127.032	107.489	111.341	103.074	118.513			
3/15/2007	4:00		130.408	127.02	107.482	111.331	103.065	118.504			
3/15/2007	4:30		130.414	127.013	107.471	111.318	103.053	118.491			
3/15/2007	5:00		130.419	127.004	107.461	111.314	103.051	118.487			
3/15/2007	5:30		130.439	127.011	107.468	111.31	103.044	118.483			
3/15/2007	6:00		132.155	127.016	107.479	111.308	103.041	118.483			
3/15/2007	6:30		132.338	127.036	107.496	111.341	103.072	118.515			
3/15/2007	7:00		132.413	128.158	108.016	111.649	103.496	118.943			
3/15/2007	7:30		132.477	128.339	108.163	111.828	103.685	119.128			
3/15/2007	8:00		132.515	128.415	108.23	111.906	103.765	119.206			
3/15/2007	8:30		132.549	128.478	108.29	111.969	103.829	119.268			
3/15/2007	9:00		132.581	128.519	108.328	112.009	103.871	119.308			
3/15/2007	9:30		132.583	128.556	108.366	112.047	103.909	119.344			
3/15/2007	10:00		132.59	128.586	108.392	112.08	103.942	119.377			
3/15/2007	10:30		132.15	128.591	108.399	112.089	103.949	119.385			
3/15/2007	11:00		130.868	128.603	108.411	112.099	103.961	119.392			
3/15/2007	11:30		130.737	128.147	108.2	112.114	103.975	119.409			
3/15/2007	12:00		130.664	127.455	107.887	111.754	103.501	118.932			
3/15/2007	12:30		130.619	127.326	107.759	111.624	103.364	118.799			
3/15/2007	13:00		130.585	127.256	107.706	111.55	103.289	118.724			
3/15/2007	13:30		130.566	127.208	107.668	111.512	103.246	118.682			
3/15/2007	14:00		130.541	127.178	107.64	111.478	103.213	118.649			
3/15/2007	14:30		130.532	127.157	107.618	111.461	103.197	118.632			

TABLE S3.2 (Cont.)

		Depth below Top of Casing (ft)									
Date	Time	MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/15/2007	15:00		130.528	127.134	107.597	111.44	103.173	118.611			
3/15/2007	15:30		130.521	127.127	107.578	111.428	103.161	118.599			
3/15/2007	16:00		130.507	127.12	107.564	111.424	103.157	118.594			
3/15/2007	16:30		130.498	127.113	107.551	111.417	103.15	118.587			
3/15/2007	17:00		130.494	127.099	107.537	111.403	103.138	118.575			
3/15/2007	17:30		130.501	127.092	107.527	111.396	103.133	118.566			
3/15/2007	18:00		130.501	127.087	107.528	111.392	103.126	118.56			
3/15/2007	18:30		130.507	127.094	107.529	111.396	103.131	118.568			
3/15/2007	19:00		130.512	127.092	107.53	111.394	103.128	118.566			
3/15/2007	19:30		130.51	127.101	107.561	111.402	103.135	118.572			
3/15/2007	20:00		130.519	127.106	107.563	111.403	103.138	118.577			
3/15/2007	20:30		130.526	127.104	107.563	111.405	103.14	118.577			
3/15/2007	21:00		130.521	127.115	107.571	111.417	103.152	118.59			
3/15/2007	21:30		130.519	127.117	107.575	111.417	103.15	118.59			
3/15/2007	22:00		130.517	127.117	107.573	111.415	103.15	118.588			
3/15/2007	22:30		130.514	127.113	107.57	111.415	103.152	118.59			
3/15/2007	23:00		130.507	127.11	107.57	111.411	103.145	118.585			
3/15/2007	23:30		130.501	127.108	107.566	111.409	103.145	118.583			
3/16/2007	0:00		130.496	127.101	107.558	111.403	103.138	118.577			
3/16/2007	0:30		130.485	127.094	107.552	111.396	103.133	118.572			
3/16/2007	1:00		130.476	127.09	107.546	111.39	103.126	118.564			
3/16/2007	1:30		130.473	127.08	107.533	111.383	103.121	118.557			
3/16/2007	2:00		130.467	127.073	107.53	111.373	103.109	118.545			
3/16/2007	2:30		130.458	127.067	107.527	111.367	103.105	118.541			
3/16/2007	3:00		130.444	127.064	107.52	111.365	103.102	118.541			
3/16/2007	3:30		130.433	127.053	107.51	111.356	103.093	118.532			
3/16/2007	4:00		130.43	127.039	107.496	111.344	103.079	118.519			
3/16/2007	4:30		130.433	127.029	107.485	111.331	103.067	118.508			
3/16/2007	5:00		130.433	127.027	107.485	111.329	103.065	118.504			
3/16/2007	5:30		130.433	127.029	107.487	111.329	103.062	118.506			
3/16/2007	6:00		132.136	127.029	107.485	111.331	103.065	118.506			
3/16/2007	6:30		132.332	127.027	107.487	111.329	103.062	118.504			
3/16/2007	7:00		132.416	128.269	108.04	111.645	103.501	118.955			
3/16/2007	7:30		132.463	128.464	108.19	111.836	103.701	119.148			
3/16/2007	8:00		132.497	128.547	108.261	111.927	103.796	119.24			
3/16/2007	8:30		132.518	128.596	108.3	111.969	103.843	119.283			
3/16/2007	9:00		132.54	128.633	108.342	112.003	103.876	119.315			
3/16/2007	9:30		132.554	128.656	108.359	112.024	103.895	119.336			
3/16/2007	10:00		132.561	128.674	108.38	112.053	103.925	119.366			
3/16/2007	10:30		132.568	128.693	108.394	112.066	103.94	119.376			
3/16/2007	11:00		132.572	128.697	108.399	112.078	103.954	119.389			
3/16/2007	11:30		132.572	128.704	108.406	112.083	103.956	119.394			
3/16/2007	12:00		130.816	128.707	108.409	112.086	103.959	119.394			
3/16/2007	12:30		130.664	128.334	108.177	112.089	103.959	119.396			
3/16/2007	13:00		130.578	127.4	107.802	111.699	103.444	118.878			
3/16/2007	13:30		130.507	127.249	107.675	111.544	103.284	118.718			
3/16/2007	14:00		130.453	127.166	107.599	111.463	103.199	118.637			
3/16/2007	14:30		130.421	127.097	107.535	111.398	103.133	118.57			
3/16/2007	15:00		130.394	127.041	107.485	111.343	103.077	118.513			
3/16/2007	15:30		130.371	127.011	107.458	111.31	103.046	118.479			
3/16/2007	16:00		130.353	126.986	107.433	111.282	103.013	118.449			
3/16/2007	16:30		130.344	126.958	107.404	111.264	102.996	118.433			
3/16/2007	17:00		130.333	126.942	107.394	111.245	102.975	118.412			
3/16/2007	17:30		130.333	126.93	107.382	111.236	102.968	118.402			
3/16/2007	18:00		130.331	126.921	107.377	111.223	102.949	118.387			
3/16/2007	18:30		130.326	126.921	107.377	111.223	102.954	118.389			
3/16/2007	19:00		130.317	126.918	107.375	111.223	102.954	118.391			
3/16/2007	19:30		130.312	126.914	107.368	111.223	102.949	118.387			
3/16/2007	20:00		130.31	126.905	107.359	111.211	102.942	118.378			
3/16/2007	20:30		130.31	126.9	107.356	111.205	102.935	118.372			
3/16/2007	21:00		130.306	126.895	107.351	111.205	102.935	118.371			
3/16/2007	21:30		130.306	126.898	107.352	111.203	102.935	118.369			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/16/2007	22:00		130.306	126.895	107.349	111.2	102.928	118.365			
3/16/2007	22:30		130.308	126.893	107.352	111.2	102.928	118.363			
3/16/2007	23:00		130.299	126.893	107.352	111.2	102.928	118.365			
3/16/2007	23:30		130.294	126.893	107.351	111.198	102.925	118.365			
3/17/2007	0:00		130.29	126.888	107.347	111.192	102.918	118.359			
3/17/2007	0:30		130.283	126.881	107.34	111.188	102.916	118.352			
3/17/2007	1:00		130.267	126.874	107.334	111.183	102.911	118.348			
3/17/2007	1:30		130.258	126.87	107.325	111.183	102.904	118.344			
3/17/2007	2:00		130.237	126.856	107.311	111.163	102.888	118.327			
3/17/2007	2:30		130.224	126.844	107.304	111.152	102.881	118.318			
3/17/2007	3:00		130.208	126.824	107.28	111.137	102.862	118.299			
3/17/2007	3:30		130.201	126.81	107.266	111.12	102.85	118.284			
3/17/2007	4:00		130.208	126.791	107.251	111.101	102.829	118.263			
3/17/2007	4:30		130.203	126.789	107.249	111.095	102.822	118.262			
3/17/2007	5:00		130.192	126.796	107.256	111.099	102.824	118.262			
3/17/2007	5:30		130.21	126.791	107.251	111.099	102.829	118.263			
3/17/2007	6:00		130.217	126.777	107.249	111.097	102.822	118.26			
3/17/2007	6:30		130.228	126.798	107.258	111.104	102.834	118.271			
3/17/2007	7:00		131.994	126.807	107.266	111.112	102.841	118.277			
3/17/2007	7:30		132.155	126.819	107.478	111.126	102.852	118.288			
3/17/2007	8:00		132.234	127.994	107.854	111.497	103.34	118.78			
3/17/2007	8:30		132.289	128.154	107.99	111.657	103.506	118.936			
3/17/2007	9:00		131.181	128.237	108.065	111.744	103.6	119.028			
3/17/2007	9:30		130.61	128.295	108.116	111.8	103.654	119.081			
3/17/2007	10:00		130.498	127.638	107.868	111.847	103.704	119.126			
3/17/2007	10:30		130.442	127.194	107.613	111.499	103.237	118.667			
3/17/2007	11:00		130.412	127.085	107.521	111.39	103.126	118.556			
3/17/2007	11:30		130.396	127.029	107.473	111.331	103.062	118.492			
3/17/2007	12:00		130.387	127.002	107.454	111.299	103.032	118.463			
3/17/2007	12:30		130.38	126.988	107.442	111.293	103.022	118.457			
3/17/2007	13:00		130.376	126.979	107.433	111.284	103.015	118.448			
3/17/2007	13:30		130.355	126.972	107.427	111.282	103.013	118.444			
3/17/2007	14:00		130.34	126.962	107.416	111.274	103.006	118.44			
3/17/2007	14:30		130.34	126.944	107.399	111.257	102.987	118.419			
3/17/2007	15:00		130.335	126.928	107.392	111.238	102.97	118.402			
3/17/2007	15:30		130.333	126.925	107.389	111.236	102.968	118.401			
3/17/2007	16:00		130.337	126.923	107.384	111.234	102.968	118.399			
3/17/2007	16:30		130.34	126.923	107.385	111.232	102.966	118.397			
3/17/2007	17:00		130.344	126.928	107.389	111.238	102.97	118.401			
3/17/2007	17:30		130.355	126.93	107.392	111.242	102.973	118.402			
3/17/2007	18:00		130.367	126.932	107.396	111.242	102.975	118.406			
3/17/2007	18:30		130.371	126.946	107.408	111.251	102.987	118.416			
3/17/2007	19:00		130.38	126.955	107.422	111.261	102.994	118.423			
3/17/2007	19:30		130.376	126.96	107.425	111.274	103.006	118.436			
3/17/2007	20:00		130.371	126.972	107.432	111.276	103.008	118.44			
3/17/2007	20:30		130.367	126.967	107.43	111.276	103.011	118.442			
3/17/2007	21:00		130.367	126.962	107.421	111.27	103.003	118.434			
3/17/2007	21:30		130.358	126.96	107.421	111.266	103.001	118.433			
3/17/2007	22:00		130.355	126.96	107.42	111.263	102.996	118.429			
3/17/2007	22:30		130.355	126.953	107.413	111.263	102.992	118.425			
3/17/2007	23:00		130.353	126.949	107.411	111.259	102.989	118.423			
3/17/2007	23:30		130.34	126.949	107.411	111.253	102.984	118.418			
3/18/2007	0:00		130.331	126.944	107.404	111.251	102.982	118.418			
3/18/2007	0:30		130.333	126.932	107.394	111.24	102.973	118.404			
3/18/2007	1:00		130.331	126.921	107.38	111.23	102.958	118.393			
3/18/2007	1:30		130.328	126.921	107.382	111.232	102.963	118.395			
3/18/2007	2:00		130.333	126.923	107.382	111.23	102.963	118.395			
3/18/2007	2:30		130.301	126.923	107.384	111.228	102.958	118.389			
3/18/2007	3:00		130.287	126.925	107.38	111.228	102.958	118.391			
3/18/2007	3:30		130.278	126.895	107.352	111.202	102.93	118.365			
3/18/2007	4:00		130.274	126.879	107.337	111.19	102.916	118.352			
3/18/2007	4:30		130.269	126.872	107.334	111.179	102.909	118.344			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/18/2007	5:00		130.269	126.87	107.33	111.173	102.904	118.339			
3/18/2007	5:30		130.265	126.863	107.323	111.169	102.897	118.333			
3/18/2007	6:00		130.26	126.858	107.321	111.165	102.897	118.329			
3/18/2007	6:30		130.262	126.856	107.318	111.165	102.892	118.327			
3/18/2007	7:00		132.005	126.854	107.315	111.156	102.888	118.32			
3/18/2007	7:30		132.18	126.854	107.315	111.162	102.892	118.324			
3/18/2007	8:00		132.268	128.128	107.89	111.504	103.362	118.793			
3/18/2007	8:30		132.309	128.302	108.032	111.678	103.541	118.964			
3/18/2007	9:00		132.343	128.392	108.107	111.769	103.635	119.051			
3/18/2007	9:30		132.361	128.431	108.138	111.811	103.68	119.092			
3/18/2007	10:00		132.37	128.468	108.175	111.842	103.711	119.12			
3/18/2007	10:30		130.752	128.487	108.185	111.861	103.732	119.135			
3/18/2007	11:00		130.517	128.499	108.2	111.87	103.741	119.144			
3/18/2007	11:30		130.414	127.323	107.699	111.632	103.388	118.801			
3/18/2007	12:00		130.351	127.099	107.52	111.402	103.14	118.564			
3/18/2007	12:30		130.306	126.999	107.432	111.299	103.032	118.459			
3/18/2007	13:00		130.272	126.937	107.378	111.238	102.973	118.401			
3/18/2007	13:30		130.237	126.891	107.335	111.194	102.925	118.356			
3/18/2007	14:00		130.208	126.858	107.304	111.162	102.892	118.322			
3/18/2007	14:30		130.181	126.826	107.273	111.131	102.859	118.29			
3/18/2007	15:00		130.174	126.794	107.244	111.103	102.838	118.261			
3/18/2007	15:30		130.165	126.768	107.22	111.076	102.805	118.233			
3/18/2007	16:00		130.156	126.757	107.213	111.063	102.793	118.222			
3/18/2007	16:30		130.147	126.75	107.203	111.057	102.784	118.215			
3/18/2007	17:00		130.144	126.74	107.199	111.047	102.775	118.203			
3/18/2007	17:30		130.144	126.736	107.19	111.042	102.772	118.2			
3/18/2007	18:00		130.151	126.731	107.192	111.042	102.767	118.196			
3/18/2007	18:30		130.154	126.733	107.19	111.042	102.77	118.196			
3/18/2007	19:00		130.169	126.738	107.197	111.049	102.774	118.2			
3/18/2007	19:30		130.167	126.743	107.201	111.049	102.775	118.201			
3/18/2007	20:00		130.179	126.757	107.222	111.065	102.793	118.217			
3/18/2007	20:30		130.188	126.757	107.216	111.064	102.793	118.218			
3/18/2007	21:00		130.197	126.766	107.227	111.074	102.8	118.226			
3/18/2007	21:30		130.201	126.775	107.237	111.084	102.81	118.237			
3/18/2007	22:00		130.206	126.784	107.244	111.093	102.822	118.244			
3/18/2007	22:30		130.21	126.789	107.249	111.099	102.826	118.25			
3/18/2007	23:00		130.21	126.794	107.253	111.105	102.831	118.254			
3/18/2007	23:30		130.213	126.796	107.258	111.107	102.836	118.258			
3/19/2007	0:00		130.222	126.8	107.259	111.106	102.836	118.258			
3/19/2007	0:30		130.231	126.8	107.261	111.11	102.836	118.26			
3/19/2007	1:00		130.242	126.81	107.271	111.118	102.843	118.267			
3/19/2007	1:30		130.251	126.819	107.282	111.129	102.855	118.279			
3/19/2007	2:00		130.26	126.831	107.292	111.139	102.869	118.29			
3/19/2007	2:30		130.267	126.84	107.304	111.15	102.876	118.295			
3/19/2007	3:00		130.276	126.851	107.313	111.16	102.888	118.309			
3/19/2007	3:30		130.283	126.856	107.32	111.167	102.897	118.316			
3/19/2007	4:00		130.283	126.868	107.33	111.175	102.904	118.324			
3/19/2007	4:30		130.296	126.877	107.337	111.187	102.914	118.331			
3/19/2007	5:00		130.312	126.874	107.335	111.183	102.911	118.333			
3/19/2007	5:30		130.346	126.888	107.351	111.196	102.923	118.344			
3/19/2007	6:00		132.093	126.907	107.375	111.209	102.937	118.359			
3/19/2007	6:30		132.309	126.939	107.404	111.243	102.97	118.389			
3/19/2007	7:00		132.402	128.084	107.951	111.562	103.406	118.812			
3/19/2007	7:30		132.468	128.295	108.119	111.781	103.633	119.019			
3/19/2007	8:00		132.513	128.392	108.204	111.878	103.737	119.109			
3/19/2007	8:30		132.556	128.457	108.264	111.942	103.805	119.161			
3/19/2007	9:00		132.597	128.508	108.309	111.994	103.852	119.208			
3/19/2007	9:30		132.622	128.549	108.356	112.04	103.897	119.248			
3/19/2007	10:00		132.642	128.593	108.399	112.076	103.937	119.283			
3/19/2007	10:30		132.654	128.621	108.423	112.112	103.973	119.317			
3/19/2007	11:00		132.661	128.642	108.442	112.129	103.991	119.334			
3/19/2007	11:30		132.658	128.654	108.456	112.146	104.006	119.351			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/19/2007	12:00		132.656	128.66	108.464	112.16	104.022	119.364			
3/19/2007	12:30		132.645	128.663	108.466	112.16	104.022	119.364			
3/19/2007	13:00		132.64	128.66	108.462	112.163	104.025	119.366			
3/19/2007	13:30		132.638	128.651	108.459	112.16	104.018	119.362			
3/19/2007	14:00		132.629	128.649	108.457	112.152	104.015	119.357			
3/19/2007	14:30		130.898	128.647	108.456	112.152	104.013	119.355			
3/19/2007	15:00		130.755	128.3	108.226	112.15	104.01	119.351			
3/19/2007	15:30		130.68	127.478	107.889	111.785	103.529	118.928			
3/19/2007	16:00		130.632	127.342	107.775	111.646	103.383	118.791			
3/19/2007	16:30		130.6	127.268	107.709	111.569	103.308	118.718			
3/19/2007	17:00		130.58	127.217	107.668	111.524	103.258	118.673			
3/19/2007	17:30		130.571	127.189	107.64	111.495	103.225	118.643			
3/19/2007	18:00		130.566	127.168	107.625	111.478	103.211	118.626			
3/19/2007	18:30		130.557	127.161	107.62	111.466	103.199	118.62			
3/19/2007	19:00		130.553	127.154	107.611	111.465	103.192	118.611			
3/19/2007	19:30		130.546	127.147	107.606	111.455	103.185	118.605			
3/19/2007	20:00		130.544	127.141	107.599	111.447	103.18	118.6			
3/19/2007	20:30		130.537	127.136	107.594	111.446	103.173	118.594			
3/19/2007	21:00		130.53	127.134	107.594	111.44	103.168	118.59			
3/19/2007	21:30		130.528	127.127	107.587	111.438	103.168	118.587			
3/19/2007	22:00		130.519	127.12	107.58	111.43	103.161	118.583			
3/19/2007	22:30		130.514	127.115	107.573	111.423	103.152	118.575			
3/19/2007	23:00		130.501	127.106	107.563	111.415	103.147	118.568			
3/19/2007	23:30		130.489	127.101	107.561	111.411	103.14	118.562			
3/20/2007	0:00		130.476	127.09	107.549	111.4	103.131	118.555			
3/20/2007	0:30		130.455	127.08	107.537	111.386	103.114	118.54			
3/20/2007	1:00		130.437	127.064	107.523	111.373	103.102	118.528			
3/20/2007	1:30		130.43	127.043	107.502	111.352	103.086	118.511			
3/20/2007	2:00		130.419	127.027	107.483	111.337	103.069	118.495			
3/20/2007	2:30		130.405	127.02	107.478	111.326	103.055	118.481			
3/20/2007	3:00		130.385	127.009	107.466	111.32	103.05	118.476			
3/20/2007	3:30		130.371	126.997	107.452	111.304	103.034	118.461			
3/20/2007	4:00		130.353	126.976	107.433	111.286	103.02	118.444			
3/20/2007	4:30		130.339	126.96	107.415	111.268	103.001	118.427			
3/20/2007	5:00		130.326	126.942	107.399	111.247	102.982	118.406			
3/20/2007	5:30		130.34	126.928	107.387	111.238	102.97	118.393			
3/20/2007	6:00		132.053	126.921	107.387	111.219	102.954	118.376			
3/20/2007	6:30		132.234	126.928	107.385	111.236	102.97	118.391			
3/20/2007	7:00		132.318	128.179	107.951	111.558	103.418	118.833			
3/20/2007	7:30		132.252	128.362	108.097	111.748	103.614	119.013			
3/20/2007	8:00		130.641	128.448	108.171	111.84	103.704	119.094			
3/20/2007	8:30		130.517	127.999	107.97	111.891	103.758	119.141			
3/20/2007	9:00		130.458	127.228	107.642	111.533	103.275	118.69			
3/20/2007	9:30		130.439	127.106	107.539	111.406	103.14	118.562			
3/20/2007	10:00		130.41	127.048	107.496	111.35	103.081	118.504			
3/20/2007	10:30		130.383	127.029	107.48	111.326	103.058	118.479			
3/20/2007	11:00		130.353	126.999	107.449	111.307	103.036	118.46			
3/20/2007	11:30		130.324	126.969	107.421	111.28	103.008	118.431			
3/20/2007	12:00		130.315	126.942	107.392	111.247	102.977	118.402			
3/20/2007	12:30		130.294	126.914	107.366	111.219	102.954	118.374			
3/20/2007	13:00		130.272	126.905	107.361	111.206	102.937	118.361			
3/20/2007	13:30		130.249	126.881	107.334	111.188	102.921	118.344			
3/20/2007	14:00		130.244	126.861	107.313	111.166	102.895	118.322			
3/20/2007	14:30		130.235	126.84	107.294	111.143	102.874	118.297			
3/20/2007	15:00		130.235	126.833	107.289	111.139	102.871	118.292			
3/20/2007	15:30		130.224	126.824	107.278	111.135	102.864	118.284			
3/20/2007	16:00		130.215	126.821	107.277	111.131	102.862	118.282			
3/20/2007	16:30		130.203	126.814	107.271	111.122	102.852	118.273			
3/20/2007	17:00		130.199	126.805	107.259	111.114	102.845	118.265			
3/20/2007	17:30		130.203	126.796	107.253	111.103	102.829	118.25			
3/20/2007	18:00		130.208	126.789	107.249	111.099	102.826	118.25			
3/20/2007	18:30		130.21	126.791	107.249	111.101	102.829	118.25			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/20/2007	19:00		130.213	126.798	107.259	111.104	102.834	118.254			
3/20/2007	19:30		130.215	126.803	107.263	111.112	102.841	118.26			
3/20/2007	20:00		130.215	126.803	107.263	111.114	102.843	118.262			
3/20/2007	20:30		130.215	126.805	107.268	111.116	102.843	118.263			
3/20/2007	21:00		130.219	126.805	107.263	111.118	102.843	118.263			
3/20/2007	21:30		130.219	126.805	107.268	111.112	102.841	118.26			
3/20/2007	22:00		130.213	126.81	107.273	111.118	102.843	118.263			
3/20/2007	22:30		130.206	126.81	107.27	111.116	102.843	118.261			
3/20/2007	23:00		130.197	126.805	107.261	111.112	102.841	118.258			
3/20/2007	23:30		130.19	126.796	107.256	111.106	102.831	118.25			
3/21/2007	0:00		130.183	126.787	107.246	111.095	102.822	118.241			
3/21/2007	0:30		130.172	126.78	107.237	111.089	102.817	118.233			
3/21/2007	1:00		130.169	126.773	107.23	111.082	102.805	118.224			
3/21/2007	1:30		130.163	126.761	107.223	111.068	102.796	118.213			
3/21/2007	2:00		130.163	126.759	107.218	111.067	102.793	118.209			
3/21/2007	2:30		130.156	126.752	107.213	111.059	102.786	118.203			
3/21/2007	3:00		130.149	126.75	107.208	111.063	102.791	118.203			
3/21/2007	3:30		130.142	126.745	107.204	111.053	102.779	118.194			
3/21/2007	4:00		130.142	126.743	107.197	111.047	102.775	118.19			
3/21/2007	4:30		130.14	126.729	107.189	111.036	102.765	118.179			
3/21/2007	5:00		130.138	126.729	107.187	111.038	102.763	118.177			
3/21/2007	5:30		130.135	126.726	107.187	111.034	102.76	118.175			
3/21/2007	6:00		131.923	126.724	107.185	111.032	102.758	118.173			
3/21/2007	6:30		132.096	126.726	107.187	111.034	102.76	118.173			
3/21/2007	7:00		132.186	128.04	107.802	111.417	103.272	118.637			
3/21/2007	7:30		132.245	128.216	107.944	111.598	103.461	118.78			
3/21/2007	8:00		132.286	128.306	108.028	111.687	103.553	118.876			
3/21/2007	8:30		132.316	128.369	108.082	111.754	103.616	118.96			
3/21/2007	9:00		132.343	128.408	108.116	111.792	103.659	118.989			
3/21/2007	9:30		130.859	128.441	108.147	111.825	103.69	119.009			
3/21/2007	10:00		130.537	128.464	108.169	111.846	103.713	119.024			
3/21/2007	10:30		130.433	127.414	107.752	111.75	103.536	118.876			
3/21/2007	11:00		130.374	127.117	107.537	111.425	103.159	118.558			
3/21/2007	11:30		130.34	127.013	107.446	111.314	103.046	118.447			
3/21/2007	12:00		130.306	126.955	107.397	111.257	102.989	118.395			
3/21/2007	12:30		130.287	126.918	107.368	111.221	102.952	118.359			
3/21/2007	13:00		130.276	126.888	107.339	111.198	102.921	118.331			
3/21/2007	13:30		130.251	126.87	107.323	111.175	102.902	118.312			
3/21/2007	14:00		130.235	126.861	107.315	111.167	102.892	118.301			
3/21/2007	14:30		130.233	126.833	107.285	111.144	102.869	118.277			
3/21/2007	15:00		130.237	126.814	107.268	111.127	102.852	118.26			
3/21/2007	15:30		130.24	126.817	107.275	111.12	102.845	118.25			
3/21/2007	16:00		130.244	126.821	107.282	111.127	102.859	118.265			
3/21/2007	16:30		130.247	126.824	107.282	111.129	102.855	118.263			
3/21/2007	17:00		130.251	126.831	107.292	111.137	102.869	118.275			
3/21/2007	17:30		130.26	126.835	107.297	111.144	102.876	118.279			
3/21/2007	18:00		130.26	126.84	107.304	111.148	102.874	118.282			
3/21/2007	18:30		130.265	126.849	107.311	111.16	102.888	118.293			
3/21/2007	19:00		130.258	126.849	107.309	111.16	102.888	118.291			
3/21/2007	19:30		130.281	126.854	107.316	111.169	102.897	118.299			
3/21/2007	20:00		130.294	126.847	107.309	111.158	102.888	118.29			
3/21/2007	20:30		130.328	126.87	107.337	111.179	102.909	118.314			
3/21/2007	21:00		130.353	126.884	107.347	111.192	102.921	118.323			
3/21/2007	21:30		130.371	126.921	107.389	111.23	102.958	118.363			
3/21/2007	22:00		130.392	126.946	107.413	111.251	102.977	118.382			
3/21/2007	22:30		130.414	126.965	107.433	111.276	103.003	118.404			
3/21/2007	23:00		130.421	126.983	107.451	111.295	103.02	118.425			
3/21/2007	23:30		130.428	127.006	107.477	111.316	103.046	118.448			
3/22/2007	0:00		130.43	127.013	107.483	111.327	103.06	118.459			
3/22/2007	0:30		130.421	127.02	107.483	111.337	103.067	118.468			
3/22/2007	1:00		130.439	127.025	107.485	111.337	103.067	118.466			
3/22/2007	1:30		130.435	127.013	107.475	111.329	103.062	118.464			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/22/2007	2:00		130.428	127.034	107.497	111.341	103.072	118.474			
3/22/2007	2:30		130.428	127.025	107.485	111.343	103.074	118.483			
3/22/2007	3:00		130.405	127.025	107.496	111.333	103.065	118.472			
3/22/2007	3:30		130.392	127.02	107.478	111.333	103.062	118.476			
3/22/2007	4:00		130.401	127.002	107.461	111.312	103.041	118.455			
3/22/2007	4:30		130.394	126.988	107.451	111.303	103.034	118.446			
3/22/2007	5:00		130.374	126.997	107.461	111.297	103.027	118.442			
3/22/2007	5:30		130.369	126.988	107.449	111.297	103.027	118.444			
3/22/2007	6:00		132.066	126.972	107.428	111.276	103.008	118.421			
3/22/2007	6:30		132.27	126.962	107.423	111.264	102.994	118.41			
3/22/2007	7:00		132.359	128.064	107.933	111.55	103.395	118.787			
3/22/2007	7:30		132.393	128.267	108.095	111.756	103.607	118.972			
3/22/2007	8:00		132.422	128.355	108.171	111.849	103.704	119.047			
3/22/2007	8:30		132.454	128.392	108.2	111.887	103.744	119.075			
3/22/2007	9:00		132.475	128.42	108.226	111.914	103.77	119.094			
3/22/2007	9:30		132.47	128.459	108.268	111.948	103.808	119.12			
3/22/2007	10:00		132.47	128.478	108.28	111.977	103.838	119.15			
3/22/2007	10:30		132.461	128.475	108.28	111.973	103.833	119.141			
3/22/2007	11:00		132.461	128.473	108.273	111.971	103.833	119.133			
3/22/2007	11:30		132.461	128.468	108.278	111.969	103.831	119.126			
3/22/2007	12:00		132.452	128.471	108.28	111.973	103.833	119.126			
3/22/2007	12:30		132.445	128.471	108.275	111.971	103.829	119.118			
3/22/2007	13:00		132.443	128.459	108.269	111.971	103.831	119.114			
3/22/2007	13:30		132.434	128.457	108.269	111.965	103.824	119.107			
3/22/2007	14:00		132.434	128.452	108.256	111.964	103.822	119.099			
3/22/2007	14:30		131.254	128.443	108.247	111.942	103.803	119.077			
3/22/2007	15:00		130.693	128.445	108.256	111.945	103.805	119.073			
3/22/2007	15:30		130.56	127.728	107.957	111.954	103.812	119.075			
3/22/2007	16:00		130.489	127.275	107.683	111.579	103.319	118.692			
3/22/2007	16:30		130.446	127.143	107.571	111.442	103.176	118.562			
3/22/2007	17:00		130.419	127.073	107.508	111.379	103.11	118.5			
3/22/2007	17:30		130.403	127.032	107.478	111.337	103.065	118.459			
3/22/2007	18:00		130.389	127.004	107.451	111.31	103.039	118.442			
3/22/2007	18:30		130.376	126.988	107.44	111.295	103.022	118.423			
3/22/2007	19:00		130.358	126.976	107.428	111.287	103.013	118.416			
3/22/2007	19:30		130.36	126.96	107.415	111.274	103.001	118.404			
3/22/2007	20:00		130.353	126.942	107.401	111.257	102.987	118.386			
3/22/2007	20:30		130.351	126.946	107.406	111.253	102.982	118.382			
3/22/2007	21:00		130.353	126.939	107.399	111.247	102.975	118.376			
3/22/2007	21:30		130.34	126.939	107.396	111.251	102.977	118.378			
3/22/2007	22:00		130.321	126.937	107.396	111.249	102.975	118.378			
3/22/2007	22:30		130.321	126.923	107.384	111.238	102.966	118.365			
3/22/2007	23:00		130.328	126.909	107.37	111.221	102.947	118.35			
3/22/2007	23:30		130.326	126.912	107.37	111.223	102.951	118.352			
3/23/2007	0:00		130.321	126.916	107.375	111.228	102.956	118.356			
3/23/2007	0:30		130.317	126.914	107.378	111.225	102.951	118.352			
3/23/2007	1:00		130.312	126.909	107.368	111.223	102.949	118.35			
3/23/2007	1:30		130.308	126.909	107.368	111.215	102.944	118.342			
3/23/2007	2:00		130.31	126.9	107.361	111.213	102.94	118.34			
3/23/2007	2:30		130.299	126.898	107.359	111.211	102.935	118.337			
3/23/2007	3:00		130.296	126.898	107.356	111.211	102.937	118.337			
3/23/2007	3:30		130.299	126.888	107.347	111.198	102.923	118.325			
3/23/2007	4:00		130.303	126.886	107.347	111.196	102.923	118.325			
3/23/2007	4:30		130.31	126.891	107.352	111.2	102.925	118.327			
3/23/2007	5:00		130.315	126.891	107.354	111.202	102.928	118.329			
3/23/2007	5:30		130.317	126.9	107.363	111.209	102.935	118.333			
3/23/2007	6:00		130.321	126.905	107.368	111.213	102.942	118.34			
3/23/2007	6:30		130.317	126.907	107.37	111.215	102.944	118.346			
3/23/2007	7:00		130.319	126.909	107.371	111.221	102.949	118.35			
3/23/2007	7:30		130.317	126.907	107.368	111.223	102.949	118.35			
3/23/2007	8:00		131.821	126.909	107.37	111.219	102.947	118.35			
3/23/2007	8:30		132.13	126.907	107.366	111.217	102.944	118.348			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/23/2007	9:00		132.241	127.839	107.771	111.323	103.133	118.53			
3/23/2007	9:30		132.304	128.128	107.978	111.634	103.482	118.808			
3/23/2007	10:00		130.814	128.244	108.076	111.752	103.6	118.891			
3/23/2007	10:30		130.553	128.306	108.13	111.815	103.666	118.936			
3/23/2007	11:00		130.464	127.381	107.742	111.708	103.475	118.789			
3/23/2007	11:30		130.419	127.138	107.566	111.449	103.183	118.56			
3/23/2007	12:00		130.38	127.05	107.494	111.356	103.088	118.476			
3/23/2007	12:30		130.36	127.004	107.447	111.31	103.041	118.432			
3/23/2007	13:00		130.335	126.967	107.418	111.274	103.006	118.398			
3/23/2007	13:30		130.317	126.949	107.401	111.253	102.984	118.378			
3/23/2007	14:00		130.303	126.925	107.378	111.23	102.961	118.357			
3/23/2007	14:30		130.29	126.907	107.361	111.217	102.944	118.338			
3/23/2007	15:00		130.276	126.893	107.346	111.202	102.93	118.321			
3/23/2007	15:30		130.267	126.881	107.335	111.185	102.916	118.308			
3/23/2007	16:00		130.267	126.865	107.321	111.171	102.9	118.297			
3/23/2007	16:30		130.262	126.858	107.311	111.164	102.892	118.288			
3/23/2007	17:00		130.269	126.854	107.311	111.16	102.888	118.284			
3/23/2007	17:30		130.274	126.854	107.313	111.158	102.888	118.284			
3/23/2007	18:00		130.274	126.858	107.318	111.166	102.895	118.29			
3/23/2007	18:30		130.278	126.863	107.327	111.177	102.904	118.299			
3/23/2007	19:00		130.278	126.861	107.323	111.171	102.9	118.293			
3/23/2007	19:30		130.276	126.868	107.33	111.175	102.904	118.299			
3/23/2007	20:00		130.29	126.87	107.332	111.179	102.907	118.299			
3/23/2007	20:30		130.299	126.863	107.325	111.177	102.904	118.295			
3/23/2007	21:00		130.292	126.877	107.34	111.183	102.911	118.303			
3/23/2007	21:30		130.292	126.888	107.352	111.188	102.916	118.308			
3/23/2007	22:00		130.294	126.881	107.346	111.192	102.923	118.312			
3/23/2007	22:30		130.265	126.884	107.346	111.188	102.916	118.309			
3/23/2007	23:00		130.24	126.888	107.349	111.192	102.921	118.312			
3/23/2007	23:30		130.217	126.851	107.308	111.171	102.9	118.291			
3/24/2007	0:00		130.199	126.828	107.28	111.139	102.871	118.262			
3/24/2007	0:30		130.224	126.803	107.259	111.112	102.843	118.233			
3/24/2007	1:00		130.281	126.791	107.256	111.091	102.819	118.211			
3/24/2007	1:30		130.305	126.817	107.282	111.123	102.855	118.243			
3/24/2007	2:00		130.308	126.872	107.342	111.177	102.904	118.29			
3/24/2007	2:30		130.294	126.895	107.359	111.207	102.935	118.324			
3/24/2007	3:00		130.283	126.9	107.365	111.205	102.933	118.322			
3/24/2007	3:30		130.271	126.886	107.346	111.196	102.925	118.314			
3/24/2007	4:00		130.276	126.874	107.334	111.184	102.914	118.301			
3/24/2007	4:30		130.267	126.865	107.332	111.177	102.907	118.293			
3/24/2007	5:00		130.269	126.87	107.334	111.175	102.907	118.293			
3/24/2007	5:30		130.283	126.861	107.321	111.169	102.9	118.288			
3/24/2007	6:00		130.29	126.863	107.328	111.165	102.895	118.284			
3/24/2007	6:30		132.005	126.877	107.34	111.183	102.909	118.301			
3/24/2007	7:00		132.193	126.881	107.342	111.192	102.923	118.312			
3/24/2007	7:30		132.284	128.001	107.871	111.489	103.333	118.669			
3/24/2007	8:00		132.318	128.189	108.021	111.683	103.536	118.812			
3/24/2007	8:30		132.384	128.283	108.1	111.781	103.635	118.881			
3/24/2007	9:00		132.391	128.318	108.132	111.817	103.671	118.9			
3/24/2007	9:30		132.382	128.383	108.194	111.876	103.73	119.065			
3/24/2007	10:00		130.741	128.39	108.202	111.899	103.749	119.081			
3/24/2007	10:30		130.503	128.387	108.188	111.891	103.746	119.071			
3/24/2007	11:00		130.426	127.314	107.677	111.628	103.385	118.765			
3/24/2007	11:30		130.392	127.092	107.518	111.398	103.136	118.543			
3/24/2007	12:00		130.369	127.018	107.459	111.314	103.048	118.459			
3/24/2007	12:30		130.362	126.979	107.432	111.28	103.011	118.423			
3/24/2007	13:00		130.342	126.96	107.411	111.259	102.989	118.402			
3/24/2007	13:30		130.328	126.951	107.404	111.253	102.982	118.397			
3/24/2007	14:00		130.321	126.932	107.385	111.24	102.968	118.38			
3/24/2007	14:30		130.31	126.918	107.368	111.227	102.954	118.367			
3/24/2007	15:00		130.294	126.907	107.363	111.209	102.937	118.352			
3/24/2007	15:30		130.303	126.9	107.356	111.205	102.933	118.346			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/24/2007	16:00		130.294	126.888	107.342	111.196	102.923	118.337			
3/24/2007	16:30		130.292	126.893	107.347	111.198	102.928	118.34			
3/24/2007	17:00		130.294	126.886	107.346	111.194	102.923	118.335			
3/24/2007	17:30		130.296	126.881	107.342	111.186	102.918	118.331			
3/24/2007	18:00		130.294	126.884	107.346	111.19	102.921	118.333			
3/24/2007	18:30		130.29	126.888	107.347	111.198	102.923	118.337			
3/24/2007	19:00		130.283	126.886	107.344	111.198	102.923	118.338			
3/24/2007	19:30		130.278	126.884	107.342	111.19	102.916	118.333			
3/24/2007	20:00		130.281	126.874	107.334	111.183	102.911	118.325			
3/24/2007	20:30		130.278	126.872	107.332	111.179	102.904	118.318			
3/24/2007	21:00		130.276	126.872	107.335	111.181	102.911	118.325			
3/24/2007	21:30		130.274	126.872	107.332	111.183	102.911	118.325			
3/24/2007	22:00		130.262	126.87	107.33	111.175	102.904	118.318			
3/24/2007	22:30		130.251	126.865	107.325	111.177	102.907	118.321			
3/24/2007	23:00		130.244	126.854	107.315	111.162	102.888	118.306			
3/24/2007	23:30		130.237	126.844	107.303	111.148	102.878	118.295			
3/25/2007	0:00		130.237	126.835	107.296	111.141	102.869	118.286			
3/25/2007	0:30		130.228	126.831	107.289	111.137	102.867	118.28			
3/25/2007	1:00		130.217	126.831	107.287	111.139	102.867	118.28			
3/25/2007	1:30		130.217	126.819	107.28	111.127	102.855	118.271			
3/25/2007	2:00		130.212	126.81	107.27	111.118	102.845	118.259			
3/25/2007	2:30		130.21	126.807	107.268	111.116	102.841	118.256			
3/25/2007	3:00		130.208	126.805	107.265	111.11	102.838	118.254			
3/25/2007	3:30		130.199	126.803	107.261	111.108	102.836	118.25			
3/25/2007	4:00		130.194	126.798	107.258	111.108	102.836	118.248			
3/25/2007	4:30		130.201	126.796	107.251	111.103	102.826	118.243			
3/25/2007	5:00		130.201	126.789	107.249	111.095	102.819	118.233			
3/25/2007	5:30		130.206	126.794	107.256	111.101	102.827	118.237			
3/25/2007	6:00		130.208	126.796	107.254	111.101	102.829	118.241			
3/25/2007	6:30		130.203	126.798	107.261	111.107	102.826	118.244			
3/25/2007	7:00		131.898	126.8	107.259	111.108	102.834	118.246			
3/25/2007	7:30		132.13	126.796	107.256	111.103	102.829	118.243			
3/25/2007	8:00		132.236	128.022	107.806	111.392	103.237	118.62			
3/25/2007	8:30		132.295	128.251	107.99	111.626	103.484	118.819			
3/25/2007	9:00		132.332	128.362	108.083	111.745	103.607	118.908			
3/25/2007	9:30		132.35	128.422	108.135	111.803	103.666	118.945			
3/25/2007	10:00		132.361	128.457	108.164	111.842	103.708	118.971			
3/25/2007	10:30		132.382	128.475	108.183	111.859	103.723	118.977			
3/25/2007	11:00		132.395	128.492	108.197	111.874	103.737	118.981			
3/25/2007	11:30		132.404	128.51	108.213	111.891	103.756	118.992			
3/25/2007	12:00		132.413	128.522	108.226	111.906	103.77	119			
3/25/2007	12:30		132.413	128.533	108.24	111.918	103.782	119.097			
3/25/2007	13:00		132.413	128.54	108.242	111.926	103.796	119.109			
3/25/2007	13:30		132.42	128.538	108.24	111.924	103.791	119.101			
3/25/2007	14:00		130.759	128.542	108.247	111.927	103.793	119.099			
3/25/2007	14:30		130.551	128.547	108.252	111.933	103.805	119.103			
3/25/2007	15:00		130.46	127.337	107.714	111.646	103.395	118.723			
3/25/2007	15:30		130.421	127.134	107.556	111.436	103.173	118.549			
3/25/2007	16:00		130.389	127.048	107.483	111.346	103.077	118.46			
3/25/2007	16:30		130.369	127.006	107.449	111.308	103.034	118.427			
3/25/2007	17:00		130.351	126.974	107.421	111.278	103.006	118.397			
3/25/2007	17:30		130.342	126.958	107.406	111.263	102.989	118.38			
3/25/2007	18:00		130.335	126.937	107.39	111.242	102.97	118.363			
3/25/2007	18:30		130.335	126.928	107.384	111.234	102.963	118.355			
3/25/2007	19:00		130.335	126.923	107.377	111.23	102.959	118.352			
3/25/2007	19:30		130.333	126.925	107.382	111.234	102.959	118.355			
3/25/2007	20:00		130.335	126.923	107.38	111.23	102.959	118.353			
3/25/2007	20:30		130.337	126.921	107.38	111.228	102.954	118.35			
3/25/2007	21:00		130.335	126.923	107.384	111.232	102.959	118.356			
3/25/2007	21:30		130.328	126.925	107.385	111.238	102.963	118.367			
3/25/2007	22:00		130.324	126.921	107.384	111.234	102.963	118.363			
3/25/2007	22:30		130.312	126.916	107.377	111.23	102.956	118.359			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/25/2007	23:00		130.312	126.914	107.371	111.223	102.949	118.352			
3/25/2007	23:30		130.306	126.902	107.361	111.215	102.942	118.342			
3/26/2007	0:00		130.305	126.9	107.358	111.211	102.935	118.339			
3/26/2007	0:30		130.299	126.898	107.356	111.206	102.933	118.337			
3/26/2007	1:00		130.296	126.893	107.356	111.203	102.935	118.335			
3/26/2007	1:30		130.287	126.888	107.349	111.202	102.928	118.327			
3/26/2007	2:00		130.287	126.886	107.346	111.198	102.925	118.327			
3/26/2007	2:30		130.278	126.877	107.337	111.188	102.916	118.32			
3/26/2007	3:00		130.271	126.877	107.339	111.185	102.914	118.316			
3/26/2007	3:30		130.265	126.868	107.325	111.177	102.904	118.312			
3/26/2007	4:00		130.26	126.861	107.318	111.171	102.897	118.303			
3/26/2007	4:30		130.253	126.854	107.313	111.166	102.892	118.295			
3/26/2007	5:00		130.253	126.849	107.309	111.16	102.885	118.29			
3/26/2007	5:30		130.26	126.844	107.308	111.156	102.883	118.288			
3/26/2007	6:00		132.025	126.844	107.306	111.154	102.883	118.286			
3/26/2007	6:30		132.189	126.851	107.382	111.156	102.885	118.288			
3/26/2007	7:00		132.257	128.027	107.892	111.525	103.366	118.718			
3/26/2007	7:30		132.304	128.186	108.023	111.695	103.543	118.849			
3/26/2007	8:00		130.807	128.263	108.088	111.765	103.616	118.896			
3/26/2007	8:30		130.548	128.309	108.132	111.819	103.671	118.936			
3/26/2007	9:00		130.455	127.376	107.74	111.704	103.468	118.785			
3/26/2007	9:30		130.408	127.134	107.561	111.443	103.178	118.558			
3/26/2007	10:00		130.387	127.043	107.485	111.352	103.084	118.47			
3/26/2007	10:30		130.371	126.995	107.449	111.301	103.032	118.427			
3/26/2007	11:00		130.351	126.981	107.433	111.287	103.015	118.41			
3/26/2007	11:30		130.337	126.96	107.413	111.266	102.994	118.393			
3/26/2007	12:00		130.315	126.942	107.397	111.249	102.977	118.376			
3/26/2007	12:30		130.305	126.925	107.38	111.238	102.963	118.361			
3/26/2007	13:00		130.301	126.909	107.365	111.215	102.944	118.344			
3/26/2007	13:30		130.292	126.895	107.354	111.203	102.93	118.329			
3/26/2007	14:00		130.285	126.895	107.351	111.204	102.928	118.327			
3/26/2007	14:30		130.285	126.886	107.342	111.19	102.919	118.32			
3/26/2007	15:00		130.267	126.877	107.335	111.186	102.914	118.316			
3/26/2007	15:30		130.262	126.872	107.332	111.183	102.914	118.312			
3/26/2007	16:00		130.262	126.858	107.315	111.167	102.895	118.295			
3/26/2007	16:30		130.267	126.854	107.316	111.165	102.893	118.288			
3/26/2007	17:00		130.278	126.851	107.313	111.163	102.888	118.288			
3/26/2007	17:30		130.269	126.858	107.32	111.165	102.893	118.291			
3/26/2007	18:00		130.256	126.87	107.327	111.181	102.904	118.305			
3/26/2007	18:30		130.269	126.861	107.323	111.166	102.895	118.293			
3/26/2007	19:00		130.269	126.849	107.313	111.158	102.886	118.286			
3/26/2007	19:30		130.278	126.863	107.323	111.173	102.902	118.301			
3/26/2007	20:00		130.283	126.863	107.325	111.169	102.897	118.299			
3/26/2007	20:30		130.283	126.872	107.335	111.179	102.904	118.306			
3/26/2007	21:00		130.29	126.877	107.339	111.185	102.911	118.314			
3/26/2007	21:30		130.285	126.879	107.34	111.183	102.911	118.31			
3/26/2007	22:00		130.283	126.884	107.344	111.192	102.921	118.32			
3/26/2007	22:30		130.278	126.881	107.344	111.188	102.916	118.32			
3/26/2007	23:00		130.267	126.879	107.342	111.186	102.914	118.316			
3/26/2007	23:30		130.262	126.872	107.335	111.181	102.909	118.31			
3/27/2007	0:00		130.256	126.861	107.321	111.173	102.9	118.303			
3/27/2007	0:30		130.251	126.858	107.316	111.167	102.893	118.295			
3/27/2007	1:00		130.24	126.851	107.311	111.16	102.888	118.29			
3/27/2007	1:30		130.235	126.849	107.306	111.154	102.881	118.284			
3/27/2007	2:00		130.224	126.835	107.292	111.143	102.871	118.273			
3/27/2007	2:30		130.212	126.831	107.29	111.137	102.864	118.267			
3/27/2007	3:00		130.197	126.819	107.278	111.126	102.855	118.256			
3/27/2007	3:30		130.19	126.805	107.265	111.116	102.841	118.243			
3/27/2007	4:00		130.183	126.794	107.251	111.099	102.829	118.23			
3/27/2007	4:30		130.192	126.782	107.24	111.089	102.817	118.218			
3/27/2007	5:00		130.192	126.78	107.24	111.084	102.812	118.211			
3/27/2007	5:30		130.192	126.787	107.249	111.093	102.817	118.222			

TABLE S3.2 (Cont.)

		Depth below Top of Casing (ft)									
Date	Time	MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/27/2007	6:00		131.848	126.789	107.251	111.095	102.822	118.222			
3/27/2007	6:30		132.096	126.787	107.247	111.093	102.819	118.22			
3/27/2007	7:00		132.198	127.978	107.775	111.343	103.187	118.557			
3/27/2007	7:30		132.261	128.221	107.959	111.598	103.456	118.761			
3/27/2007	8:00		132.298	128.325	108.049	111.704	103.567	118.835			
3/27/2007	8:30		132.325	128.387	108.102	111.769	103.633	118.88			
3/27/2007	9:00		130.87	128.424	108.135	111.807	103.675	118.9			
3/27/2007	9:30		130.523	128.457	108.164	111.836	103.701	119.075			
3/27/2007	10:00		130.408	127.43	107.754	111.771	103.567	118.942			
3/27/2007	10:30		130.349	127.11	107.528	111.421	103.154	118.56			
3/27/2007	11:00		130.308	126.999	107.435	111.303	103.034	118.444			
3/27/2007	11:30		130.283	126.942	107.385	111.246	102.977	118.387			
3/27/2007	12:00		130.26	126.902	107.349	111.207	102.935	118.346			
3/27/2007	12:30		130.235	126.874	107.327	111.177	102.907	118.318			
3/27/2007	13:00		130.222	126.854	107.306	111.158	102.886	118.297			
3/27/2007	13:30		130.199	126.828	107.284	111.133	102.857	118.271			
3/27/2007	14:00		130.179	126.817	107.268	111.12	102.845	118.26			
3/27/2007	14:30		130.16	126.791	107.246	111.101	102.827	118.239			
3/27/2007	15:00		130.163	126.773	107.225	111.08	102.808	118.22			
3/27/2007	15:30		130.16	126.754	107.209	111.061	102.789	118.201			
3/27/2007	16:00		130.163	126.757	107.225	111.057	102.784	118.198			
3/27/2007	16:30		130.163	126.828	107.213	111.064	102.791	118.201			
3/27/2007	17:00		130.158	126.754	107.215	111.066	102.791	118.201			
3/27/2007	17:30		130.163	126.757	107.216	111.063	102.789	118.207			
3/27/2007	18:00		130.163	126.75	107.211	111.057	102.784	118.211			
3/27/2007	18:30		130.169	126.754	107.215	111.065	102.786	118.215			
3/27/2007	19:00		130.179	126.757	107.218	111.067	102.791	118.22			
3/27/2007	19:30		130.176	126.761	107.223	111.068	102.794	118.22			
3/27/2007	20:00		130.176	126.773	107.232	111.082	102.805	118.224			
3/27/2007	20:30		130.178	126.768	107.23	111.08	102.803	118.23			
3/27/2007	21:00		130.178	126.77	107.232	111.08	102.803	118.228			
3/27/2007	21:30		130.172	126.775	107.237	111.085	102.808	118.23			
3/27/2007	22:00		130.172	126.773	107.234	111.085	102.808	118.232			
3/27/2007	22:30		130.172	126.763	107.225	111.074	102.801	118.233			
3/27/2007	23:00		130.169	126.766	107.228	111.072	102.798	118.233			
3/27/2007	23:30		130.165	126.766	107.227	111.078	102.798	118.235			
3/28/2007	0:00		130.165	126.763	107.227	111.074	102.798	118.235			
3/28/2007	0:30		130.163	126.759	107.22	111.068	102.794	118.235			
3/28/2007	1:00		130.163	126.757	107.22	111.07	102.798	118.235			
3/28/2007	1:30		130.16	126.757	107.222	111.067	102.794	118.235			
3/28/2007	2:00		130.167	126.757	107.22	111.067	102.791	118.235			
3/28/2007	2:30		130.169	126.754	107.216	111.065	102.789	118.237			
3/28/2007	3:00		130.163	126.761	107.225	111.072	102.796	118.235			
3/28/2007	3:30		130.156	126.766	107.225	111.074	102.801	118.239			
3/28/2007	4:00		130.167	126.754	107.218	111.067	102.794	118.241			
3/28/2007	4:30		130.174	126.75	107.213	111.057	102.782	118.241			
3/28/2007	5:00		130.181	126.759	107.227	111.068	102.794	118.241			
3/28/2007	5:30		130.19	126.768	107.232	111.078	102.803	118.239			
3/28/2007	6:00		131.984	126.775	107.237	111.087	102.812	118.237			
3/28/2007	6:30		132.152	126.784	107.439	111.093	102.817	118.241			
3/28/2007	7:00		132.227	127.978	107.833	111.464	103.31	118.703			
3/28/2007	7:30		132.273	128.14	107.964	111.63	103.48	118.848			
3/28/2007	8:00		132.307	128.219	108.035	111.714	103.565	118.915			
3/28/2007	8:30		132.334	128.269	108.08	111.763	103.614	118.955			
3/28/2007	9:00		132.354	128.306	108.114	111.798	103.649	118.977			
3/28/2007	9:30		132.377	128.334	108.142	111.828	103.683	118.998			
3/28/2007	10:00		132.386	128.355	108.164	111.851	103.704	119.015			
3/28/2007	10:30		132.386	128.376	108.183	111.872	103.725	119.024			
3/28/2007	11:00		130.684	128.387	108.195	111.885	103.737	119.035			
3/28/2007	11:30		130.512	128.39	108.202	111.893	103.744	119.041			
3/28/2007	12:00		130.426	127.265	107.664	111.579	103.317	118.686			
3/28/2007	12:30		130.374	127.099	107.532	111.407	103.138	118.526			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/28/2007	13:00		130.333	127.016	107.459	111.325	103.055	118.451			
3/28/2007	13:30		130.303	126.96	107.404	111.27	102.996	118.408			
3/28/2007	14:00		130.283	126.921	107.371	111.23	102.956	118.38			
3/28/2007	14:30		130.265	126.895	107.346	111.198	102.928	118.359			
3/28/2007	15:00		130.262	126.872	107.327	111.181	102.907	118.346			
3/28/2007	15:30		130.249	126.856	107.309	111.158	102.886	118.335			
3/28/2007	16:00		130.244	126.851	107.309	111.16	102.89	118.327			
3/28/2007	16:30		130.253	126.84	107.296	111.148	102.876	118.324			
3/28/2007	17:00		130.258	126.833	107.296	111.141	102.867	118.318			
3/28/2007	17:30		130.267	126.847	107.304	111.154	102.878	118.314			
3/28/2007	18:00		130.271	126.849	107.309	111.158	102.881	118.312			
3/28/2007	18:30		130.267	126.856	107.32	111.165	102.89	118.312			
3/28/2007	19:00		130.249	126.863	107.327	111.173	102.897	118.31			
3/28/2007	19:30		130.237	126.858	107.316	111.169	102.897	118.305			
3/28/2007	20:00		130.235	126.842	107.301	111.152	102.876	118.301			
3/28/2007	20:30		130.26	126.828	107.285	111.135	102.862	118.297			
3/28/2007	21:00		130.249	126.824	107.285	111.131	102.855	118.29			
3/28/2007	21:30		130.256	126.849	107.313	111.162	102.888	118.29			
3/28/2007	22:00		130.256	126.84	107.301	111.154	102.878	118.286			
3/28/2007	22:30		130.249	126.847	107.309	111.156	102.881	118.282			
3/28/2007	23:00		130.258	126.849	107.309	111.156	102.881	118.279			
3/28/2007	23:30		130.253	126.84	107.301	111.154	102.881	118.275			
3/29/2007	0:00		130.235	126.849	107.313	111.162	102.886	118.271			
3/29/2007	0:30		130.224	126.844	107.303	111.158	102.883	118.273			
3/29/2007	1:00		130.233	126.824	107.284	111.139	102.869	118.267			
3/29/2007	1:30		130.233	126.814	107.275	111.123	102.853	118.262			
3/29/2007	2:00		130.237	126.826	107.29	111.131	102.857	118.258			
3/29/2007	2:30		130.228	126.826	107.289	111.137	102.862	118.254			
3/29/2007	3:00		130.217	126.831	107.294	111.139	102.864	118.248			
3/29/2007	3:30		130.21	126.819	107.28	111.131	102.855	118.246			
3/29/2007	4:00		130.21	126.81	107.268	111.12	102.845	118.239			
3/29/2007	4:30		130.212	126.803	107.265	111.112	102.838	118.235			
3/29/2007	5:00		130.21	126.805	107.268	111.11	102.834	118.23			
3/29/2007	5:30		130.201	126.805	107.266	111.114	102.838	118.228			
3/29/2007	6:00		132.027	126.803	107.265	111.112	102.838	118.226			
3/29/2007	6:30		132.195	126.791	107.509	111.101	102.827	118.224			
3/29/2007	7:00		132.277	128.149	107.911	111.524	103.378	118.716			
3/29/2007	7:30		132.334	128.32	108.051	111.699	103.558	118.857			
3/29/2007	8:00		132.35	128.408	108.132	111.786	103.645	118.919			
3/29/2007	8:30		132.37	128.459	108.171	111.844	103.706	118.951			
3/29/2007	9:00		132.395	128.48	108.195	111.859	103.725	118.974			
3/29/2007	9:30		132.425	128.501	108.207	111.883	103.749	118.989			
3/29/2007	10:00		132.454	128.524	108.233	111.912	103.777	119			
3/29/2007	10:30		132.461	128.554	108.268	111.941	103.801	119.007			
3/29/2007	11:00		132.472	128.586	108.285	111.973	103.836	119.013			
3/29/2007	11:30		132.463	128.593	108.304	111.975	103.841	119.019			
3/29/2007	12:00		132.436	128.605	108.313	111.994	103.86	119.022			
3/29/2007	12:30		132.427	128.593	108.29	111.992	103.86	119.028			
3/29/2007	13:00		130.861	128.566	108.271	111.952	103.817	119.084			
3/29/2007	13:30		130.591	128.561	108.273	111.948	103.819	119.094			
3/29/2007	14:00		130.489	127.432	107.79	111.754	103.513	118.825			
3/29/2007	14:30		130.442	127.173	107.592	111.482	103.213	118.581			
3/29/2007	15:00		130.423	127.076	107.509	111.375	103.105	118.476			
3/29/2007	15:30		130.383	127.029	107.478	111.327	103.051	118.418			
3/29/2007	16:00		130.376	127.011	107.459	111.318	103.041	118.382			
3/29/2007	16:30		130.374	126.972	107.425	111.28	103.003	118.365			
3/29/2007	17:00		130.38	126.962	107.418	111.268	102.992	118.346			
3/29/2007	17:30		130.378	126.96	107.421	111.268	102.992	118.331			
3/29/2007	18:00		130.364	126.969	107.432	111.276	102.999	118.318			
3/29/2007	18:30		130.353	126.965	107.423	111.28	103.006	118.308			
3/29/2007	19:00		130.339	126.953	107.413	111.263	102.987	118.299			
3/29/2007	19:30		130.337	126.939	107.399	111.253	102.977	118.291			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/29/2007	20:00		130.355	126.93	107.387	111.242	102.968	118.28			
3/29/2007	20:30		130.351	126.93	107.396	111.232	102.952	118.273			
3/29/2007	21:00		130.351	126.951	107.416	111.259	102.982	118.263			
3/29/2007	21:30		130.344	126.944	107.411	111.253	102.977	118.256			
3/29/2007	22:00		130.321	126.942	107.402	111.257	102.982	118.247			
3/29/2007	22:30		130.315	126.935	107.394	111.245	102.973	118.237			
3/29/2007	23:00		130.305	126.912	107.371	111.223	102.949	118.232			
3/29/2007	23:30		130.296	126.907	107.365	111.219	102.944	118.224			
3/30/2007	0:00		130.287	126.895	107.354	111.209	102.933	118.217			
3/30/2007	0:30		130.294	126.886	107.346	111.198	102.926	118.209			
3/30/2007	1:00		130.29	126.879	107.34	111.188	102.914	118.201			
3/30/2007	1:30		130.278	126.884	107.347	111.196	102.921	118.196			
3/30/2007	2:00		130.269	126.881	107.342	111.194	102.919	118.192			
3/30/2007	2:30		130.26	126.87	107.332	111.183	102.909	118.186			
3/30/2007	3:00		130.256	126.861	107.32	111.175	102.9	118.183			
3/30/2007	3:30		130.249	126.849	107.313	111.163	102.886	118.177			
3/30/2007	4:00		130.246	126.844	107.308	111.156	102.881	118.175			
3/30/2007	4:30		130.24	126.84	107.301	111.15	102.876	118.171			
3/30/2007	5:00		130.237	126.835	107.296	111.148	102.871	118.167			
3/30/2007	5:30		130.242	126.831	107.292	111.143	102.867	118.17			
3/30/2007	6:00		132.003	126.831	107.29	111.141	102.867	118.17			
3/30/2007	6:30		132.161	126.835	107.466	111.143	102.867	118.166			
3/30/2007	7:00		132.236	128.006	107.871	111.508	103.35	118.609			
3/30/2007	7:30		132.286	128.163	108.004	111.67	103.52	118.748			
3/30/2007	8:00		132.316	128.242	108.076	111.752	103.602	118.806			
3/30/2007	8:30		130.639	128.293	108.118	111.804	103.657	118.84			
3/30/2007	9:00		130.487	128.325	108.145	111.838	103.69	118.859			
3/30/2007	9:30		130.408	127.221	107.628	111.537	103.277	118.506			
3/30/2007	10:00		130.367	127.076	107.508	111.383	103.119	118.356			
3/30/2007	10:30		130.33	126.995	107.437	111.303	103.034	118.288			
3/30/2007	11:00		130.312	126.955	107.402	111.263	102.989	118.248			
3/30/2007	11:30		130.287	126.921	107.373	111.23	102.956	118.222			
3/30/2007	12:00		130.271	126.9	107.351	111.207	102.933	118.207			
3/30/2007	12:30		130.242	126.879	107.334	111.185	102.911	118.194			
3/30/2007	13:00		130.228	126.861	107.315	111.167	102.9	118.185			
3/30/2007	13:30		130.203	126.831	107.287	111.141	102.869	118.179			
3/30/2007	14:00		130.187	126.819	107.273	111.131	102.857	118.175			
3/30/2007	14:30		130.172	126.794	107.242	111.105	102.831	118.173			
3/30/2007	15:00		130.158	126.777	107.234	111.085	102.81	118.169			
3/30/2007	15:30		130.151	126.759	107.215	111.072	102.798	118.171			
3/30/2007	16:00		130.14	126.75	107.208	111.057	102.786	118.169			
3/30/2007	16:30		130.11	126.74	107.197	111.055	102.782	118.17			
3/30/2007	17:00		130.11	126.729	107.178	111.042	102.768	118.171			
3/30/2007	17:30		130.101	126.699	107.158	111.007	102.737	118.158			
3/30/2007	18:00		130.133	126.699	107.156	111.009	102.737	118.158			
3/30/2007	18:30		130.092	126.692	107.151	111	102.728	118.156			
3/30/2007	19:00		130.088	126.722	107.184	111.038	102.761	118.171			
3/30/2007	19:30		130.094	126.682	107.134	110.988	102.718	118.158			
3/30/2007	20:00		130.133	126.678	107.132	110.992	102.718	118.16			
3/30/2007	20:30		130.079	126.689	107.158	110.998	102.725	118.162			
3/30/2007	21:00		130.09	126.724	107.184	111.034	102.758	118.177			
3/30/2007	21:30		130.07	126.669	107.13	111	102.728	118.173			
3/30/2007	22:00		130.033	126.666	107.142	110.992	102.718	118.166			
3/30/2007	22:30		130.033	126.798	107.352	110.986	102.711	118.164			
3/30/2007	23:00		130.011	126.782	107.296	110.941	102.659	118.145			
3/30/2007	23:30		130.001	126.819	107.306	110.943	102.659	118.143			
3/31/2007	0:00		129.997	126.74	107.277	110.916	102.633	118.143			
3/31/2007	0:30		129.974	126.652	107.265	110.908	102.631	118.151			
3/31/2007	1:00		129.958	126.553	107.263	110.903	102.628	118.155			
3/31/2007	1:30		129.94	126.544	107.246	110.884	102.607	118.158			
3/31/2007	2:00		129.913	126.527	107.227	110.867	102.588	118.16			
3/31/2007	2:30		129.888	126.537	107.194	110.847	102.57	118.158			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
3/31/2007	3:00		129.881	126.502	107.175	110.824	102.546	118.16			
3/31/2007	3:30		129.859	126.479	107.177	110.796	102.518	118.164			
3/31/2007	4:00		129.847	126.47	107.159	110.788	102.508	118.166			
3/31/2007	4:30		129.843	126.447	107.147	110.769	102.489	118.173			
3/31/2007	5:00		129.838	126.437	107.139	110.758	102.478	118.179			
3/31/2007	5:30		129.831	126.43	107.134	110.748	102.47	118.185			
3/31/2007	6:00		129.843	126.426	107.123	110.746	102.466	118.192			
3/31/2007	6:30		131.531	126.421	107.12	110.737	102.456	118.198			
3/31/2007	7:00		131.767	126.43	107.12	110.75	102.47	118.207			
3/31/2007	7:30		131.864	127.643	107.645	111.03	102.871	118.568			
3/31/2007	8:00		131.932	127.874	107.807	111.272	103.124	118.786			
3/31/2007	8:30		131.978	127.964	107.884	111.375	103.232	118.865			
3/31/2007	9:00		131.996	128.036	107.932	111.447	103.303	118.919			
3/31/2007	9:30		132.016	128.094	107.933	111.489	103.348	118.998			
3/31/2007	10:00		130.256	128.117	107.928	111.51	103.366	118.915			
3/31/2007	10:30		130.117	127.781	107.695	111.535	103.39	118.943			
3/31/2007	11:00		130.049	126.831	107.334	111.154	102.883	118.492			
3/31/2007	11:30		130.013	126.701	107.201	111.017	102.742	118.383			
3/31/2007	12:00		129.992	126.632	107.182	110.948	102.671	118.337			
3/31/2007	12:30		129.999	126.597	107.17	110.912	102.633	118.312			
3/31/2007	13:00		130.006	126.578	107.196	110.897	102.617	118.301			
3/31/2007	13:30		130.02	126.583	107.197	110.901	102.619	118.294			
3/31/2007	14:00		130.045	126.595	107.187	110.912	102.631	118.29			
3/31/2007	14:30		130.06	126.608	107.153	110.925	102.642	118.29			
3/31/2007	15:00		130.079	126.625	107.132	110.947	102.666	118.29			
3/31/2007	15:30		130.092	126.641	107.134	110.969	102.68	118.277			
3/31/2007	16:00		130.099	126.662	107.135	110.983	102.697	118.276			
3/31/2007	16:30		130.106	126.676	107.144	110.998	102.718	118.276			
3/31/2007	17:00		130.119	126.682	107.151	111.009	102.723	118.275			
3/31/2007	17:30		130.129	126.687	107.165	111.013	102.727	118.279			
3/31/2007	18:00		130.135	126.706	107.172	111.026	102.742	118.279			
3/31/2007	18:30		130.144	126.715	107.175	111.04	102.758	118.284			
3/31/2007	19:00		130.149	126.72	107.177	111.043	102.763	118.282			
3/31/2007	19:30		130.149	126.731	107.175	111.057	102.777	118.28			
3/31/2007	20:00		130.158	126.736	107.173	111.061	102.777	118.276			
3/31/2007	20:30		130.156	126.733	107.168	111.059	102.777	118.271			
3/31/2007	21:00		130.142	126.745	107.163	111.068	102.786	118.269			
3/31/2007	21:30		130.138	126.74	107.159	111.063	102.782	118.263			
3/31/2007	22:00		130.133	126.729	107.154	111.053	102.775	118.26			
3/31/2007	22:30		130.124	126.724	107.151	111.049	102.77	118.256			
3/31/2007	23:00		130.117	126.717	107.147	111.042	102.763	118.252			
3/31/2007	23:30		130.108	126.71	107.142	111.032	102.753	118.247			
4/1/2007	0:00		130.106	126.703	107.139	111.026	102.749	118.243			
4/1/2007	0:30		130.113	126.694	107.134	111.019	102.742	118.239			
4/1/2007	1:00		130.117	126.694	107.13	111.013	102.735	118.233			
4/1/2007	1:30		130.117	126.701	107.127	111.023	102.742	118.232			
4/1/2007	2:00		130.117	126.706	107.123	111.024	102.744	118.228			
4/1/2007	2:30		130.122	126.703	107.12	111.03	102.751	118.222			
4/1/2007	3:00		130.129	126.706	107.115	111.025	102.746	118.22			
4/1/2007	3:30		130.126	126.71	107.109	111.032	102.756	118.215			
4/1/2007	4:00		130.122	126.717	107.104	111.036	102.758	118.209			
4/1/2007	4:30		130.122	126.713	107.101	111.04	102.758	118.205			
4/1/2007	5:00		130.131	126.708	107.096	111.034	102.753	118.2			
4/1/2007	5:30		130.133	126.71	107.089	111.032	102.753	118.196			
4/1/2007	6:00		130.14	126.72	107.085	111.044	102.765	118.19			
4/1/2007	6:30		130.147	126.724	107.08	111.044	102.765	118.186			
4/1/2007	7:00		130.158	126.726	107.075	111.047	102.772	118.181			
4/1/2007	7:30		131.59	126.738	107.068	111.057	102.779	118.177			
4/1/2007	8:00		132.03	126.747	107.109	111.068	102.789	118.177			
4/1/2007	8:30		132.17	127.744	107.554	111.076	102.801	118.171			
4/1/2007	9:00		132.241	128.149	107.795	111.535	103.388	118.699			
4/1/2007	9:30		132.291	128.288	107.916	111.678	103.536	118.827			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/1/2007	10:00		132.322	128.36	107.978	111.754	103.614	118.889			
4/1/2007	10:30		132.345	128.413	108.021	111.807	103.668	118.947			
4/1/2007	11:00		132.356	128.441	108.054	111.84	103.699	118.97			
4/1/2007	11:30		131.113	128.464	108.069	111.863	103.72	118.985			
4/1/2007	12:00		130.564	128.478	108.082	111.874	103.732	118.998			
4/1/2007	12:30		130.426	127.603	107.756	111.884	103.744	119.009			
4/1/2007	13:00		130.344	127.143	107.47	111.466	103.199	118.513			
4/1/2007	13:30		130.296	127.006	107.373	111.327	103.051	118.395			
4/1/2007	14:00		130.26	126.93	107.308	111.247	102.973	118.331			
4/1/2007	14:30		130.24	126.881	107.268	111.198	102.921	118.288			
4/1/2007	15:00		130.219	126.844	107.24	111.165	102.886	118.26			
4/1/2007	15:30		130.212	126.824	107.218	111.144	102.864	118.239			
4/1/2007	16:00		130.192	126.805	107.203	111.125	102.848	118.222			
4/1/2007	16:30		130.185	126.796	107.189	111.114	102.834	118.211			
4/1/2007	17:00		130.176	126.78	107.177	111.099	102.822	118.2			
4/1/2007	17:30		130.176	126.768	107.166	111.093	102.817	118.192			
4/1/2007	18:00		130.172	126.763	107.159	111.085	102.81	118.183			
4/1/2007	18:30		130.169	126.761	107.151	111.082	102.803	118.177			
4/1/2007	19:00		130.181	126.757	107.142	111.08	102.803	118.173			
4/1/2007	19:30		130.169	126.754	107.135	111.076	102.8	118.166			
4/1/2007	20:00		130.172	126.796	107.153	111.084	102.808	118.195			
4/1/2007	20:30		130.167	126.754	107.128	111.078	102.8	118.138			
4/1/2007	21:00		130.165	126.754	107.12	111.076	102.8	118.121			
4/1/2007	21:30		130.156	126.752	107.113	111.076	102.798	118.117			
4/1/2007	22:00		130.151	126.75	107.113	111.07	102.793	118.111			
4/1/2007	22:30		130.144	126.743	107.108	111.065	102.786	118.105			
4/1/2007	23:00		130.14	126.733	107.101	111.059	102.782	118.1			
4/1/2007	23:30		130.135	126.729	107.094	111.049	102.77	118.094			
4/2/2007	0:00		130.129	126.724	107.089	111.049	102.77	118.089			
4/2/2007	0:30		130.126	126.72	107.084	111.043	102.765	118.083			
4/2/2007	1:00		130.124	126.713	107.077	111.034	102.756	118.077			
4/2/2007	1:30		130.115	126.71	107.072	111.03	102.753	118.072			
4/2/2007	2:00		130.108	126.708	107.066	111.03	102.753	118.068			
4/2/2007	2:30		130.101	126.701	107.061	111.023	102.744	118.063			
4/2/2007	3:00		130.092	126.694	107.058	111.021	102.739	118.059			
4/2/2007	3:30		130.092	126.687	107.053	111.011	102.732	118.051			
4/2/2007	4:00		130.097	126.678	107.049	111	102.72	118.046			
4/2/2007	4:30		130.09	126.678	107.044	111	102.72	118.043			
4/2/2007	5:00		130.101	126.682	107.042	111.002	102.723	118.04			
4/2/2007	5:30		130.11	126.676	107.037	110.998	102.718	118.036			
4/2/2007	6:00		131.891	126.687	107.063	111.021	102.739	118.038			
4/2/2007	6:30		132.055	126.692	107.189	111.011	102.732	118.034			
4/2/2007	7:00		132.134	127.874	107.639	111.377	103.216	118.521			
4/2/2007	7:30		132.177	128.038	107.778	111.548	103.39	118.684			
4/2/2007	8:00		132.204	128.119	107.844	111.634	103.48	118.765			
4/2/2007	8:30		132.209	128.163	107.887	111.678	103.524	118.814			
4/2/2007	9:00		132.22	128.191	107.916	111.704	103.553	118.844			
4/2/2007	9:30		132.229	128.198	107.94	111.714	103.565	118.864			
4/2/2007	10:00		132.229	128.212	107.957	111.726	103.574	118.88			
4/2/2007	10:30		132.22	128.221	107.976	111.739	103.588	118.895			
4/2/2007	11:00		132.225	128.221	107.992	111.742	103.591	118.902			
4/2/2007	11:30		131.426	128.214	108.002	111.739	103.584	118.902			
4/2/2007	12:00		130.455	128.219	108.016	111.744	103.591	118.91			
4/2/2007	12:30		130.29	127.673	107.758	111.748	103.595	118.919			
4/2/2007	13:00		130.208	127.027	107.451	111.362	103.086	118.436			
4/2/2007	13:30		130.142	126.865	107.337	111.192	102.919	118.284			
4/2/2007	14:00		130.097	126.784	107.277	111.108	102.829	118.209			
4/2/2007	14:30		130.065	126.72	107.234	111.046	102.765	118.16			
4/2/2007	15:00		130.04	126.676	107.211	110.996	102.72	118.128			
4/2/2007	15:30		130.024	126.643	107.197	110.969	102.687	118.113			
4/2/2007	16:00		130.02	126.618	107.163	110.941	102.659	118.104			
4/2/2007	16:30		130.017	126.602	107.159	110.929	102.647	118.096			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/2/2007	17:00		130.015	126.599	107.134	110.92	102.635	118.096			
4/2/2007	17:30		130.015	126.592	107.134	110.92	102.638	118.092			
4/2/2007	18:00		130.013	126.595	107.135	110.918	102.638	118.091			
4/2/2007	18:30		130.013	126.592	107.137	110.918	102.64	118.093			
4/2/2007	19:00		130.013	126.592	107.137	110.92	102.638	118.093			
4/2/2007	19:30		130.017	126.592	107.14	110.922	102.64	118.096			
4/2/2007	20:00		130.022	126.597	107.142	110.926	102.64	118.096			
4/2/2007	20:30		130.022	126.599	107.146	110.925	102.642	118.096			
4/2/2007	21:00		130.02	126.602	107.147	110.931	102.65	118.1			
4/2/2007	21:30		130.02	126.604	107.149	110.933	102.652	118.1			
4/2/2007	22:00		130.017	126.599	107.151	110.929	102.645	118.102			
4/2/2007	22:30		130.017	126.599	107.153	110.927	102.645	118.102			
4/2/2007	23:00		130.013	126.599	107.153	110.927	102.647	118.102			
4/2/2007	23:30		130.004	126.595	107.154	110.927	102.645	118.102			
4/3/2007	0:00		130.042	126.59	107.156	110.926	102.64	118.102			
4/3/2007	0:30		130.054	126.583	107.134	110.912	102.633	118.104			
4/3/2007	1:00		130.072	126.627	107.139	110.929	102.642	118.1			
4/3/2007	1:30		130.099	126.639	107.142	110.969	102.687	118.102			
4/3/2007	2:00		130.108	126.655	107.142	110.977	102.697	118.1			
4/3/2007	2:30		130.122	126.682	107.142	111.007	102.73	118.098			
4/3/2007	3:00		130.115	126.692	107.139	111.028	102.746	118.096			
4/3/2007	3:30		130.101	126.703	107.135	111.036	102.753	118.094			
4/3/2007	4:00		130.113	126.699	107.13	111.034	102.756	118.091			
4/3/2007	4:30		130.106	126.685	107.123	111.015	102.734	118.085			
4/3/2007	5:00		130.129	126.696	107.118	111.027	102.746	118.079			
4/3/2007	5:30		130.317	126.689	107.111	111.019	102.739	118.072			
4/3/2007	6:00		131.973	126.715	107.103	111.046	102.765	118.066			
4/3/2007	6:30		132.166	127.224	107.428	111.053	102.775	118.068			
4/3/2007	7:00		132.254	128.089	107.78	111.489	103.336	118.598			
4/3/2007	7:30		132.313	128.281	107.947	111.689	103.541	118.733			
4/3/2007	8:00		132.375	128.376	108.032	111.777	103.638	118.793			
4/3/2007	8:30		132.413	128.431	108.082	111.84	103.701	118.827			
4/3/2007	9:00		130.748	128.494	108.144	111.902	103.76	118.848			
4/3/2007	9:30		130.587	128.536	108.18	111.946	103.805	118.863			
4/3/2007	10:00		130.514	127.328	107.642	111.657	103.39	118.47			
4/3/2007	10:30		130.48	127.168	107.523	111.491	103.22	118.41			
4/3/2007	11:00		130.455	127.099	107.465	111.421	103.147	118.344			
4/3/2007	11:30		130.433	127.067	107.439	111.39	103.114	118.279			
4/3/2007	12:00		130.414	127.043	107.413	111.363	103.088	118.263			
4/3/2007	12:30		130.394	127.018	107.401	111.344	103.065	118.25			
4/3/2007	13:00		130.378	126.999	107.375	111.329	103.053	118.241			
4/3/2007	13:30		130.362	126.981	107.356	111.31	103.034	118.218			
4/3/2007	14:00		130.339	126.965	107.34	111.299	103.02	118.213			
4/3/2007	14:30		130.317	126.951	107.325	111.28	103.001	118.194			
4/3/2007	15:00		130.303	126.923	107.304	111.251	102.975	118.177			
4/3/2007	15:30		130.29	126.907	107.284	111.232	102.954	118.158			
4/3/2007	16:00		130.287	126.891	107.275	111.217	102.937	118.14			
4/3/2007	16:30		130.287	126.881	107.254	111.203	102.928	118.121			
4/3/2007	17:00		130.283	126.879	107.254	111.202	102.925	118.102			
4/3/2007	17:30		130.283	126.877	107.254	111.204	102.923	118.121			
4/3/2007	18:00		130.276	126.874	107.261	111.196	102.921	118.119			
4/3/2007	18:30		130.274	126.872	107.246	111.2	102.921	118.119			
4/3/2007	19:00		130.271	126.865	107.251	111.19	102.914	118.104			
4/3/2007	19:30		130.271	126.861	107.239	111.19	102.914	118.085			
4/3/2007	20:00		130.271	126.861	107.244	111.185	102.909	118.074			
4/3/2007	20:30		130.271	126.861	107.246	111.187	102.907	118.081			
4/3/2007	21:00		130.274	126.861	107.247	111.185	102.907	118.09			
4/3/2007	21:30		130.265	126.861	107.235	111.183	102.904	118.076			
4/3/2007	22:00		130.256	126.863	107.239	111.188	102.909	118.083			
4/3/2007	22:30		130.253	126.851	107.23	111.177	102.9	118.093			
4/3/2007	23:00		130.256	126.844	107.223	111.169	102.892	118.076			
4/3/2007	23:30		130.249	126.842	107.216	111.166	102.888	118.061			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/4/2007	0:00		130.235	126.844	107.237	111.169	102.89	118.085			
4/4/2007	0:30		130.208	126.84	107.213	111.164	102.883	118.074			
4/4/2007	1:00		130.208	126.821	107.208	111.147	102.869	118.072			
4/4/2007	1:30		130.194	126.794	107.196	111.125	102.848	118.057			
4/4/2007	2:00		130.187	126.794	107.178	111.116	102.838	118.04			
4/4/2007	2:30		130.185	126.782	107.168	111.106	102.826	118.034			
4/4/2007	3:00		130.169	126.773	107.156	111.099	102.822	118.021			
4/4/2007	3:30		130.169	126.773	107.156	111.095	102.815	118.008			
4/4/2007	4:00		130.172	126.761	107.142	111.083	102.805	117.999			
4/4/2007	4:30		130.176	126.759	107.144	111.08	102.8	117.985			
4/4/2007	5:00		130.174	126.759	107.139	111.082	102.8	117.972			
4/4/2007	5:30		131.973	126.766	107.146	111.093	102.812	118.012			
4/4/2007	6:00		132.141	126.761	107.377	111.091	102.81	118.01			
4/4/2007	6:30		132.211	127.964	107.747	111.472	103.312	118.487			
4/4/2007	7:00		132.263	128.131	107.88	111.644	103.484	118.65			
4/4/2007	7:30		132.295	128.2	107.944	111.723	103.567	118.716			
4/4/2007	8:00		132.304	128.258	107.997	111.775	103.621	118.763			
4/4/2007	8:30		130.682	128.286	108.023	111.806	103.654	118.795			
4/4/2007	9:00		130.476	128.302	108.035	111.821	103.668	118.806			
4/4/2007	9:30		130.398	127.256	107.551	111.588	103.324	118.491			
4/4/2007	10:00		130.342	127.06	107.408	111.386	103.114	118.286			
4/4/2007	10:30		130.301	126.983	107.334	111.303	103.025	118.2			
4/4/2007	11:00		130.271	126.928	107.29	111.253	102.975	118.156			
4/4/2007	11:30		130.237	126.886	107.256	111.209	102.935	118.122			
4/4/2007	12:00		130.208	126.856	107.23	111.181	102.902	118.092			
4/4/2007	12:30			126.824	107.209	111.146	102.869	118.074			
4/4/2007	13:00			126.798	107.192	111.122	102.841	118.053			
4/4/2007	13:30		130.061	126.77	107.182	111.093	102.815	118.04			
4/4/2007	14:00		130.045	126.75	107.168	111.072	102.793	118.029			
4/4/2007	14:30		130.025	126.713	107.158	111.047	102.767	118.016			
4/4/2007	15:00		130.008	126.699	107.151	111.023	102.744	118.01			
4/4/2007	15:30		129.994	126.673	107.139	111.002	102.723	117.997			
4/4/2007	16:00		129.994	126.652	107.132	110.979	102.699	117.989			
4/4/2007	16:30		129.975		107.128	110.96	102.678	117.984			
4/4/2007	17:00		129.982		107.125	110.95	102.673	117.984			
4/4/2007	17:30		129.959	126.578	107.118	110.933	102.652	117.97			
4/4/2007	18:00		129.964	126.574	107.12	110.927	102.65	117.97			
4/4/2007	18:30		129.966	126.575	107.122	110.923	102.642	117.965			
4/4/2007	19:00		129.97	126.568	107.116	110.92	102.645	117.967			
4/4/2007	19:30		129.975	126.573	107.116	110.92	102.638	117.959			
4/4/2007	20:00		129.982	126.579	107.116	110.924	102.64	117.959			
4/4/2007	20:30		129.993	126.587	107.118	110.929	102.647	117.959			
4/4/2007	21:00		130	126.591	107.118	110.939	102.657	117.959			
4/4/2007	21:30		130.009	126.605	107.122	110.945	102.664	117.959			
4/4/2007	22:00		130.009	126.609	107.122	110.954	102.673	117.961			
4/4/2007	22:30		130.013	126.618	107.12	110.96	102.68	117.957			
4/4/2007	23:00		130.018	126.618	107.118	110.964	102.683	117.961			
4/4/2007	23:30		130.016	126.623	107.118	110.971	102.687	117.957			
4/5/2007	0:00		130.011	126.627	107.115	110.973	102.692	117.954			
4/5/2007	0:30		130.009	126.625	107.111	110.971	102.692	117.95			
4/5/2007	1:00		130.009	126.62	107.108	110.967	102.685	117.944			
4/5/2007	1:30		130.006	126.62	107.103	110.966	102.683	117.94			
4/5/2007	2:00		130	126.615	107.099	110.966	102.683	117.937			
4/5/2007	2:30		129.99	126.617	107.096	110.962	102.683	117.929			
4/5/2007	3:00		129.99	126.61	107.092	110.958	102.676	117.924			
4/5/2007	3:30		129.988	126.601	107.087	110.945	102.664	117.927			
4/5/2007	4:00		129.972	126.601	107.084	110.947	102.666	117.92			
4/5/2007	4:30		129.959	126.596	107.08	110.947	102.666	117.914			
4/5/2007	5:00		129.959	126.582	107.077	110.933	102.652	117.912			
4/5/2007	5:30		129.959	126.568	107.075	110.916	102.635	117.908			
4/5/2007	6:00		131.776	126.566	107.072	110.914	102.633	117.907			
4/5/2007	6:30		131.951	126.566	107.197	110.914	102.635	117.901			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/5/2007	7:00		132.053	127.907	107.708	111.326	103.173	118.35			
4/5/2007	7:30		132.107	128.085	107.852	111.506	103.357	118.483			
4/5/2007	8:00		132.148	128.19	107.932	111.609	103.466	118.543			
4/5/2007	8:30		132.177	128.243	107.98	111.674	103.532	118.673			
4/5/2007	9:00		132.193	128.282	108.011	111.714	103.569	118.711			
4/5/2007	9:30		132.214	128.312	108.035	111.739	103.595	118.733			
4/5/2007	10:00		132.221	128.33	108.056	111.769	103.621	118.756			
4/5/2007	10:30		132.223	128.352	108.076	111.783	103.64	118.765			
4/5/2007	11:00		132.221	128.358	108.083	111.79	103.645	118.778			
4/5/2007	11:30		132.227	128.361	108.095	111.8	103.657	118.788			
4/5/2007	12:00		130.526	128.363	108.106	111.796	103.652	118.799			
4/5/2007	12:30		130.312	128.365	107.945	111.804	103.659	118.806			
4/5/2007	13:00		130.213	127.113	107.542	111.474	103.206	118.416			
4/5/2007	13:30		130.156	126.912	107.387	111.263	102.985	118.233			
4/5/2007	14:00		130.115	126.815	107.308	111.16	102.878	118.141			
4/5/2007	14:30		130.083	126.764	107.27	111.105		118.085			
4/5/2007	15:00		130.058	126.718	107.234	111.067		118.055			
4/5/2007	15:30		130.042	126.683	107.209	111.034	102.737	118.032			
4/5/2007	16:00		130.024	126.66	107.194	111.013	102.712	118.021			
4/5/2007	16:30		130.015	126.644	107.184	111.004	102.697	118.205			
4/5/2007	17:00		130.015	126.628	107.175	110.981	102.676	118.02			
4/5/2007	17:30		130.006	126.618	107.168	110.971	102.666	118.008			
4/5/2007	18:00		129.999	126.616	107.163	110.967	102.659	118.002			
4/5/2007	18:30		129.995	126.609	107.159	110.966	102.655	117.999			
4/5/2007	19:00		129.99	126.602	107.156	110.956	102.65	117.995			
4/5/2007	19:30		129.988	126.595	107.151	110.95	102.643	117.993			
4/5/2007	20:00		129.983	126.593	107.149	110.947	102.636	117.987			
4/5/2007	20:30		129.986	126.593	107.147	110.948	102.64	117.984			
4/5/2007	21:00		129.986	126.588	107.146	110.947	102.636	117.982			
4/5/2007	21:30		129.986	126.588	107.144	110.945	102.636	117.98			
4/5/2007	22:00		129.988	126.591	107.144	110.945	102.636	117.976			
4/5/2007	22:30		129.986	126.59	107.142	110.947	102.636	117.976			
4/5/2007	23:00		129.981	126.593	107.14	110.948	102.64	117.974			
4/5/2007	23:30		129.979	126.59	107.139	110.945	102.636	117.97			
4/6/2007	0:00		129.977	126.588	107.137	110.943	102.633	117.967			
4/6/2007	0:30		129.979	126.584	107.135	110.943	102.636	117.963			
4/6/2007	1:00		129.972	126.581	107.134	110.939	102.633	117.961			
4/6/2007	1:30		129.968	126.581	107.132	110.941	102.631	117.957			
4/6/2007	2:00		129.965	126.576	107.13	110.931	102.628	117.955			
4/6/2007	2:30		129.972	126.572	107.13	110.931	102.621	117.952			
4/6/2007	3:00		129.972	126.57	107.127	110.926	102.617	117.95			
4/6/2007	3:30		129.965	126.576	107.125	110.933	102.624	117.948			
4/6/2007	4:00		129.974	126.576	107.123	110.933	102.626	117.944			
4/6/2007	4:30		129.983	126.57	107.12	110.929	102.624	117.942			
4/6/2007	5:00		129.995	126.581	107.116	110.937	102.628	117.939			
4/6/2007	5:30		129.999	126.59	107.113	110.948	102.64	117.937			
4/6/2007	6:00		131.726	126.602	107.116	110.96	102.652	117.927			
4/6/2007	6:30		131.935	126.604	107.113	110.966	102.657	117.925			
4/6/2007	7:00		132.028	127.735	107.656	111.274	103.081	118.301			
4/6/2007	7:30		132.091	127.939	107.811	111.491	103.305	118.462			
4/6/2007	8:00		132.132	128.038	107.889	111.596	103.411	118.528			
4/6/2007	8:30		130.961	128.103		111.659	103.475	118.562			
4/6/2007	9:00		130.38	128.14	108.02	111.699	103.515	118.594			
4/6/2007	9:30		130.251	127.444	107.714	111.729	103.541	118.605			
4/6/2007	10:00		130.181	126.977	107.434	111.335	103.044	118.196			
4/6/2007	10:30		130.133	126.852	107.331	111.207	102.902	118.074			
4/6/2007	11:00		130.095	126.782	107.268	111.137	102.831	118.014			
4/6/2007	11:30		130.067	126.738	107.22		102.789	117.97			
4/6/2007	12:00		130.031	126.699	107.187		102.749	117.948			
4/6/2007	12:30		130.008	126.664	107.16	111.007	102.716	117.92			
4/6/2007	13:00		129.99	126.634	107.13	110.971	102.683	117.907			
4/6/2007	13:30		129.972	126.611	107.11	110.953	102.661	117.895			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/6/2007	14:00		129.958	126.595	107.09	110.931	102.64	117.89			
4/6/2007	14:30		129.94	126.576	107.078	110.915	102.624	117.882			
4/6/2007	15:00		129.927	126.565	107.06	110.898	102.607	117.875			
4/6/2007	15:30		129.915	126.544	107.042	110.886	102.595	117.869			
4/6/2007	16:00		129.909	126.528	107.025	110.866	102.577	117.86			
4/6/2007	16:30		129.902	126.519	107.014	110.854	102.562	117.858			
4/6/2007	17:00		129.899	126.512	107.012	110.848	102.553	117.854			
4/6/2007	17:30		129.895	126.507	107.01	110.845	102.553	117.848			
4/6/2007	18:00		129.895	126.502	107.003	110.844	102.555	117.85			
4/6/2007	18:30		129.897	126.5	106.999	110.839	102.546	117.848			
4/6/2007	19:00		129.897	126.489	107.001	110.837	102.544	117.845			
4/6/2007	19:30		129.899	126.5	107.004	110.839	102.544	117.846			
4/6/2007	20:00		129.906	126.498	107.002	110.84	102.546	117.843			
4/6/2007	20:30		129.915	126.502	107.009	110.839	102.546	117.841			
4/6/2007	21:00		129.918	126.507	107.014	110.85	102.553	117.841			
4/6/2007	21:30		129.922	126.514	107.022	110.854	102.56	117.841			
4/6/2007	22:00		129.92	126.519	107.028	110.859	102.562	117.841			
4/6/2007	22:30		129.92	126.523	107.028	110.863	102.567	117.837			
4/6/2007	23:00		129.918	126.523	107.026	110.865	102.57	117.835			
4/6/2007	23:30		129.92	126.523	107.024	110.863	102.57	117.833			
4/7/2007	0:00		129.922	126.521	107.022	110.863	102.567	117.83			
4/7/2007	0:30		129.92	126.523	107.019	110.863	102.57	117.827			
4/7/2007	1:00		129.92	126.521	107.017	110.863	102.57	117.826			
4/7/2007	1:30		129.913	126.521	107.014	110.861	102.567	117.822			
4/7/2007	2:00		129.911	126.521	107.012	110.859	102.567	117.82			
4/7/2007	2:30		129.906	126.514	107.008	110.857	102.565	117.82			
4/7/2007	3:00		129.899	126.512	107.006	110.853	102.562	117.816			
4/7/2007	3:30		129.895	126.509	107.003	110.848	102.558	117.815			
4/7/2007	4:00		129.89	126.5	107.003	110.842	102.548	117.813			
4/7/2007	4:30		129.879	126.498	106.999	110.838	102.541	117.809			
4/7/2007	5:00		129.879	126.491	106.998	110.832	102.539	117.807			
4/7/2007	5:30		129.872	126.484	106.994	110.823	102.529	117.803			
4/7/2007	6:00		129.875	126.482	106.994	110.821	102.529	117.803			
4/7/2007	6:30		131.093	126.474	106.993	110.813	102.52	117.798			
4/7/2007	7:00		131.751	126.477	106.991	110.815	102.52	117.794			
4/7/2007	7:30		131.903	127.323	107.372	110.817	102.525	117.794			
4/7/2007	8:00		131.98	127.874	107.677	111.278	103.114	118.288			
4/7/2007	8:30		132.025	128.029	107.804	111.446	103.286	118.466			
4/7/2007	9:00		132.057	128.108	107.875	111.531	103.374	118.538			
4/7/2007	9:30		132.084	128.154	107.921	111.577	103.421	118.587			
4/7/2007	10:00		130.439	128.191	107.954	111.613	103.459	118.62			
4/7/2007	10:30		130.215	128.214	107.98	111.64	103.485	118.682			
4/7/2007	11:00		130.104	126.988	107.427	111.341	103.067	118.28			
4/7/2007	11:30		130.033	126.763	107.266	111.114	102.834	118.06			
4/7/2007	12:00		129.983	126.664	107.185	111.006	102.718	117.965			
4/7/2007	12:30		129.947	126.602	107.14	110.939	102.65	117.918			
4/7/2007	13:00		129.92	126.56	107.111	110.897	102.61	117.877			
4/7/2007	13:30		129.895	126.523	107.092	110.867	102.574	117.856			
4/7/2007	14:00		129.877	126.5	107.08	110.84	102.551	117.839			
4/7/2007	14:30		129.861	126.479	107.053	110.821	102.529	117.828			
4/7/2007	15:00		129.843	126.46	107.047	110.802	102.506	117.809			
4/7/2007	15:30		129.829	126.442	107.027	110.781	102.489	117.803			
4/7/2007	16:00		129.818	126.426	107.01	110.766	102.473	117.79			
4/7/2007	16:30		129.811	126.415	106.989	110.752	102.461	117.788			
4/7/2007	17:00		129.804	126.408	106.994	110.747	102.454	117.786			
4/7/2007	17:30		129.802	126.401	106.996	110.743	102.447	117.786			
4/7/2007	18:00		129.802	126.396	106.982	110.737	102.442	117.786			
4/7/2007	18:30		129.802	126.398	106.985	110.737	102.444	117.788			
4/7/2007	19:00		129.802	126.398	106.987	110.739	102.444	117.786			
4/7/2007	19:30		129.806	126.398	106.991	110.743	102.445	117.79			
4/7/2007	20:00		129.809	126.401	106.991	110.745	102.447	117.792			
4/7/2007	20:30		129.816	126.405	106.994	110.75	102.451	117.794			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/7/2007	21:00		129.827	126.412	106.997	110.756	102.459	117.792			
4/7/2007	21:30		129.834	126.424	106.999	110.766	102.468	117.798			
4/7/2007	22:00		129.838	126.43	107.003	110.775	102.48	117.797			
4/7/2007	22:30		129.838	126.435	107.004	110.779	102.485	117.798			
4/7/2007	23:00		129.838	126.433	107.006	110.777	102.484	117.8			
4/7/2007	23:30		129.84	126.435	107.006	110.779	102.484	117.798			
4/8/2007	0:00		129.84	126.44	107.006	110.783	102.489	117.796			
4/8/2007	0:30		129.843	126.44	107.006	110.785	102.489	117.796			
4/8/2007	1:00		129.845	126.442	107.008	110.785	102.489	117.794			
4/8/2007	1:30		129.843	126.442	107.008	110.788	102.494	117.794			
4/8/2007	2:00		129.843	126.442	107.008	110.787	102.494	117.792			
4/8/2007	2:30		129.838	126.44	107.008	110.787	102.494	117.792			
4/8/2007	3:00		129.836	126.438	107.006	110.785	102.487	117.79			
4/8/2007	3:30		129.831	126.433	107.004	110.775	102.48	117.79			
4/8/2007	4:00		129.827	126.431	107.003	110.775	102.477	117.788			
4/8/2007	4:30		129.825	126.428	107.003	110.773	102.475	117.786			
4/8/2007	5:00		129.825	126.428	107.001	110.771	102.475	117.784			
4/8/2007	5:30		129.825	126.423	107.001	110.771	102.473	117.781			
4/8/2007	6:00		129.827	126.428	107.001	110.771	102.475	117.783			
4/8/2007	6:30		129.831	126.43	106.999	110.775	102.48	117.779			
4/8/2007	7:00		131.394	126.433	106.999	110.777	102.482	117.779			
4/8/2007	7:30		131.758	126.435	106.999	110.783	102.487	117.777			
4/8/2007	8:00		131.887	127.402	107.442	110.886	102.659	117.952			
4/8/2007	8:30		131.959	127.742	107.682	111.259	103.083	118.324			
4/8/2007	9:00		131.998	127.874	107.792	111.4	103.23	118.461			
4/8/2007	9:30		132.034	127.948	107.857	111.48	103.31	118.528			
4/8/2007	10:00		132.05	127.992	107.897	111.526	103.357	118.568			
4/8/2007	10:30		132.062	128.024	107.926	111.558	103.388	118.596			
4/8/2007	11:00		132.064	128.043	107.949	111.579	103.409	118.618			
4/8/2007	11:30		132.064	128.054	107.968	111.59	103.425	118.63			
4/8/2007	12:00		132.055	128.059	107.982	111.598	103.43	118.652			
4/8/2007	12:30		132.057	128.059	107.994	111.6	103.43	118.662			
4/8/2007	13:00		130.433	128.054	107.987	111.598	103.43	118.673			
4/8/2007	13:30		130.165	128.052	107.983	111.592	103.423	118.677			
4/8/2007	14:00		130.047	127.007	107.508	111.373	103.098	118.41			
4/8/2007	14:30		129.974	126.757	107.306	111.105	102.815	118.166			
4/8/2007	15:00		129.924	126.639	107.201	110.983	102.692	118.057			
4/8/2007	15:30		129.89	126.565	107.134	110.91	102.619	118.002			
4/8/2007	16:00		129.868	126.518	107.106	110.863	102.57	117.965			
4/8/2007	16:30		129.847	126.484	107.072	110.83	102.536	117.942			
4/8/2007	17:00		129.84	126.46	107.046	110.804	102.511	117.931			
4/8/2007	17:30		129.834	126.437	107.037	110.792	102.494	117.916			
4/8/2007	18:00		129.825	126.433	107.016	110.779	102.48	117.908			
4/8/2007	18:30		129.818	126.426	107.015	110.773	102.475	117.903			
4/8/2007	19:00		129.809	126.419	107.013	110.767	102.47	117.899			
4/8/2007	19:30		129.802	126.412	107.01	110.76	102.463	117.899			
4/8/2007	20:00		129.804	126.405	106.992	110.754	102.454	117.892			
4/8/2007	20:30		129.813	126.398	106.994	110.747	102.449	117.76			
4/8/2007	21:00		129.825	126.398	106.996	110.748	102.447	117.753			
4/8/2007	21:30		129.825	126.41	106.996	110.758	102.459	117.749			
4/8/2007	22:00		129.827	126.421	106.997	110.767	102.468	117.743			
4/8/2007	22:30		129.834	126.421	106.999	110.773	102.473	117.743			
4/8/2007	23:00		129.829	126.423	106.999	110.773	102.47	117.743			
4/8/2007	23:30		129.815	126.428	106.999	110.779	102.477	117.738			
4/9/2007	0:00		129.809	126.424	106.999	110.775	102.473	117.736			
4/9/2007	0:30		129.8	126.41	106.996	110.764	102.463	117.734			
4/9/2007	1:00		129.797	126.405	106.996	110.747	102.447	117.73			
4/9/2007	1:30		129.79	126.393	106.994	110.743	102.447	117.728			
4/9/2007	2:00		129.777	126.393	106.994	110.745	102.447	117.726			
4/9/2007	2:30		129.772	126.389	106.98	110.741	102.44	117.726			
4/9/2007	3:00		129.766	126.375	106.961	110.726	102.428	117.726			
4/9/2007	3:30		129.759	126.37	106.966	110.724	102.423	117.724			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/9/2007	4:00		129.754	126.361	106.947	110.712	102.416	117.721			
4/9/2007	4:30		129.756	126.354	106.953	110.707	102.407	117.732			
4/9/2007	5:00		129.759	126.347	106.932	110.703	102.402	117.728			
4/9/2007	5:30		129.759	126.352	106.941	110.701	102.402	117.734			
4/9/2007	6:00		131.456	126.354	106.944	110.705	102.407	117.784			
4/9/2007	6:30		131.717	126.35	106.946	110.701	102.4	117.784			
4/9/2007	7:00		131.837	127.573	107.509	110.983	102.803	118.179			
4/9/2007	7:30		131.9	127.832	107.711	111.253	103.088	118.431			
4/9/2007	8:00		131.944	127.955	107.816	111.385	103.22	118.573			
4/9/2007	8:30		131.978	128.024	107.878	111.455	103.293	118.639			
4/9/2007	9:00		132.005	128.066	107.923	111.499	103.336	118.682			
4/9/2007	9:30		130.548	128.101	107.954	111.535	103.374	118.71			
4/9/2007	10:00		130.174	128.131	107.98	111.567	103.404	118.737			
4/9/2007	10:30		130.049	127.101	107.544	111.493	103.263	118.575			
4/9/2007	11:00		129.974	126.764	107.309	111.122	102.826	118.179			
4/9/2007	11:30		129.924	126.636	107.204	110.987	102.69	118.047			
4/9/2007	12:00		129.94	126.565	107.127	110.914	102.614	117.983			
4/9/2007	12:30		129.883	126.516	107.201	110.865	102.565	117.942			
4/9/2007	13:00		129.849	126.53	107.109	110.882	102.586	117.95			
4/9/2007	13:30		129.825	126.477	107.061	110.828	102.527	117.903			
4/9/2007	14:00		129.8	126.445	107.028	110.792	102.494	117.882			
4/9/2007	14:30		129.784	126.417	107.003	110.767	102.468	117.843			
4/9/2007	15:00		129.766	126.393	106.978	110.743	102.444	117.822			
4/9/2007	15:30		129.756	126.377	106.977	110.727	102.428	117.841			
4/9/2007	16:00		129.743	126.361	106.958	110.71	102.411	117.815			
4/9/2007	16:30		129.741	126.349	106.941	110.701	102.402	117.816			
4/9/2007	17:00		129.732	126.335	106.92	110.686	102.388	117.788			
4/9/2007	17:30		129.729	126.335	106.93	110.689	102.385	117.783			
4/9/2007	18:00		129.729	126.324	106.904	110.676	102.378	117.771			
4/9/2007	18:30		129.729	126.322	106.915	110.672	102.371	117.766			
4/9/2007	19:00		129.722	126.319	106.918	110.672	102.374	117.756			
4/9/2007	19:30		129.722	126.312	106.918	110.668	102.367	117.747			
4/9/2007	20:00		129.725	126.312	106.906	110.665	102.362	117.743			
4/9/2007	20:30		129.732	126.312	106.91	110.667	102.364	117.736			
4/9/2007	21:00		129.734	126.319	106.913	110.672	102.374	117.736			
4/9/2007	21:30		129.729	126.326	106.916	110.68	102.381	117.735			
4/9/2007	22:00		129.727	126.324	106.918	110.68	102.378	117.735			
4/9/2007	22:30		129.709	126.317	106.918	110.67	102.369	117.724			
4/9/2007	23:00		129.704	126.308	106.903	110.663	102.362	117.723			
4/9/2007	23:30		129.697	126.289	106.891	110.642	102.343	117.711			
4/10/2007	0:00		129.688	126.289	106.894	110.646	102.343	117.711			
4/10/2007	0:30		129.693	126.285	106.882	110.64	102.336	117.702			
4/10/2007	1:00		129.688	126.289	106.885	110.63	102.326	117.735			
4/10/2007	1:30		129.679	126.282	106.889	110.634	102.331	117.734			
4/10/2007	2:00		129.679	126.266	106.853	110.625	102.324	117.724			
4/10/2007	2:30		129.673	126.266	106.865	110.623	102.319	117.713			
4/10/2007	3:00		129.666	126.271	106.868	110.625	102.324	117.713			
4/10/2007	3:30		129.652	126.257	106.856	110.613	102.312	117.704			
4/10/2007	4:00		129.645	126.241	106.844	110.602	102.298	117.687			
4/10/2007	4:30		129.636	126.234	106.834	110.587	102.286	117.672			
4/10/2007	5:00		129.627	126.231	106.815	110.585	102.284	117.673			
4/10/2007	5:30		129.62	126.215	106.81	110.569	102.27	117.651			
4/10/2007	6:00		131.37	126.208	106.798	110.566	102.265	117.646			
4/10/2007	6:30		131.578	126.204	106.81	110.56	102.26	117.64			
4/10/2007	7:00		131.683	127.351	107.363	110.868	102.685	118.094			
4/10/2007	7:30		131.751	127.557	107.523	111.095	102.921	118.294			
4/10/2007	8:00		131.794	127.663	107.635	111.207	103.032	118.44			
4/10/2007	8:30		131.807	127.733	107.685	111.28	103.105	118.498			
4/10/2007	9:00		131.823	127.774	107.733	111.322	103.147	118.628			
4/10/2007	9:30		130.802	127.791	107.751	111.346	103.173	118.626			
4/10/2007	10:00		130.022	127.811	107.766	111.366	103.192	118.635			
4/10/2007	10:30		129.856	127.184	107.478	111.385	103.208	118.652			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/10/2007	11:00		129.777	126.602	107.125	110.973	102.68	118.19			
4/10/2007	11:30		129.722	126.442	106.999	110.809	102.508	118.027			
4/10/2007	12:00		129.684	126.366	106.947	110.718	102.418	117.95			
4/10/2007	12:30		129.652	126.31	106.896	110.663	102.36	117.897			
4/10/2007	13:00		129.627	126.271	106.86	110.63	102.324	117.863			
4/10/2007	13:30		129.611	126.241	106.834	110.6	102.298	117.837			
4/10/2007	14:00		129.6	126.218	106.815	110.573	102.27	117.805			
4/10/2007	14:30		129.593	126.204	106.796	110.562	102.26	117.785			
4/10/2007	15:00		129.591	126.19	106.822	110.55	102.246	117.788			
4/10/2007	15:30		129.586	126.181	106.822	110.539	102.237	117.771			
4/10/2007	16:00		129.577	126.179	106.825	110.537	102.235	117.76			
4/10/2007	16:30		129.582	126.176	106.829	110.535	102.235	117.76			
4/10/2007	17:00		129.58	126.167	106.835	110.529	102.23	117.766			
4/10/2007	17:30		129.58	126.171	106.839	110.528	102.225	117.751			
4/10/2007	18:00		129.586	126.169	106.844	110.528	102.223	117.752			
4/10/2007	18:30		129.589	126.169	106.848	110.529	102.225	117.739			
4/10/2007	19:00		129.586	126.178	106.849	110.537	102.23	117.743			
4/10/2007	19:30		129.593	126.178	106.853	110.543	102.237	117.749			
4/10/2007	20:00		129.604	126.178	106.853	110.539	102.237	117.754			
4/10/2007	20:30		129.602	126.185	106.853	110.543	102.239	117.758			
4/10/2007	21:00		129.598	126.194	106.854	110.56	102.253	117.766			
4/10/2007	21:30		129.598	126.19	106.861	110.556	102.253	117.679			
4/10/2007	22:00		129.589	126.187	106.866	110.55	102.249	117.664			
4/10/2007	22:30		129.582	126.187	106.872	110.552	102.249	117.661			
4/10/2007	23:00		129.57	126.183	106.882	110.545	102.239	117.646			
4/10/2007	23:30		129.564	126.174	106.896	110.539	102.232	117.651			
4/11/2007	0:00		129.559	126.162	106.897	110.528	102.223	117.632			
4/11/2007	0:30		129.557	126.15	106.897	110.52	102.213	117.623			
4/11/2007	1:00		129.552	126.15	106.901	110.514	102.209	117.61			
4/11/2007	1:30		129.55	126.148	106.904	110.514	102.206	117.61			
4/11/2007	2:00		129.552	126.143	106.908	110.508	102.204	117.595			
4/11/2007	2:30		129.557	126.141	106.913	110.503	102.197	117.597			
4/11/2007	3:00		129.566	126.141	106.918	110.505	102.199	117.574			
4/11/2007	3:30		129.582	126.146	106.922	110.508	102.204	117.58			
4/11/2007	4:00		129.591	126.157	106.927	110.518	102.213	117.582			
4/11/2007	4:30		129.602	126.171	106.934	110.535	102.235	117.689			
4/11/2007	5:00		129.614	126.183	106.937	110.544	102.242	117.687			
4/11/2007	5:30		129.627	126.192	106.942	110.556	102.251	117.692			
4/11/2007	6:00		131.338	126.204	106.947	110.568	102.263	117.689			
4/11/2007	6:30		131.624	126.22	106.951	110.581	102.277	117.689			
4/11/2007	7:00		131.764	127.451	107.504	110.867	102.683	118.072			
4/11/2007	7:30		131.848	127.733	107.714	111.164	102.996	118.305			
4/11/2007	8:00		131.905	127.876	107.823	111.31	103.142	118.425			
4/11/2007	8:30		131.948	127.964	107.889	111.404	103.239	118.491			
4/11/2007	9:00		131.98	128.022	107.932	111.463	103.3	118.534			
4/11/2007	9:30		132.007	128.064	107.961	111.51	103.345	118.628			
4/11/2007	10:00		130.893	128.094	107.98	111.543	103.376	118.656			
4/11/2007	10:30		130.222	128.124	107.995	111.573	103.407	118.667			
4/11/2007	11:00		130.07	127.339	107.664	111.6	103.435	118.669			
4/11/2007	11:30		129.99	126.805	107.344	111.179	102.883	118.173			
4/11/2007	12:00		129.947	126.657	107.211	111.025	102.725	118.029			
4/11/2007	12:30		129.918	126.581	107.134	110.941	102.64	117.948			
4/11/2007	13:00		129.897	126.537	107.085	110.899	102.595	117.889			
4/11/2007	13:30		129.89	126.507	107.051	110.868	102.565	117.858			
4/11/2007	14:00		129.883	126.49	107.025	110.847	102.548	117.833			
4/11/2007	14:30		129.881	126.479	107.008	110.84	102.539	117.7			
4/11/2007	15:00		129.881	126.479	106.991	110.838	102.532	117.679			
4/11/2007	15:30		129.883	126.474	106.977	110.832	102.532	117.661			
4/11/2007	16:00		129.888	126.474	106.965	110.834	102.534	117.646			
4/11/2007	16:30		129.893	126.477	106.953	110.834	102.534	117.632			
4/11/2007	17:00		129.904	126.481	106.941	110.84	102.539	117.619			
4/11/2007	17:30		129.908	126.488	106.929	110.847	102.546	117.611			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/11/2007	18:00		129.906	126.493	106.915	110.859	102.555	117.619			
4/11/2007	18:30		129.908	126.497	106.946	110.859	102.555	117.614			
4/11/2007	19:00		129.911	126.497	106.929	110.861	102.558	117.606			
4/11/2007	19:30		129.913	126.502	106.953	110.861	102.56	117.6			
4/11/2007	20:00		129.92	126.504	106.937	110.867	102.562	117.591			
4/11/2007	20:30		129.922	126.507	106.965	110.867	102.565	117.576			
4/11/2007	21:00		129.922	126.514	106.942	110.872	102.572	117.572			
4/11/2007	21:30		129.924	126.516	106.97	110.876	102.574	117.563			
4/11/2007	22:00		129.92	126.516	106.947	110.88	102.576	117.553			
4/11/2007	22:30		129.915	126.518	106.977	110.884	102.579	117.544			
4/11/2007	23:00		129.913	126.516	106.956	110.876	102.579	117.533			
4/11/2007	23:30		129.913	126.511	106.942	110.872	102.574	117.523			
4/12/2007	0:00		129.908	126.504	106.991	110.867	102.569	117.512			
4/12/2007	0:30		129.906	126.507	106.951	110.865	102.567	117.495			
4/12/2007	1:00		129.895	126.502	106.935	110.863	102.567	117.482			
4/12/2007	1:30		129.89	126.5	106.96	110.863	102.562	117.473			
4/12/2007	2:00		129.89	126.49	106.942	110.851	102.553	117.557			
4/12/2007	2:30		129.879	126.488	106.929	110.846	102.548	117.576			
4/12/2007	3:00		129.872	126.486	106.965	110.846	102.548	117.565			
4/12/2007	3:30		129.874	126.477	106.935	110.836	102.536	117.55			
4/12/2007	4:00		129.877	126.472	106.92	110.827	102.525	117.533			
4/12/2007	4:30		129.877	126.47	106.91	110.828	102.527	117.54			
4/12/2007	5:00		129.879	126.472	106.932	110.832	102.532	117.553			
4/12/2007	5:30		129.881	126.474	106.913	110.828	102.529	117.538			
4/12/2007	6:00		131.594	126.477	106.944	110.832	102.532	117.542			
4/12/2007	6:30		131.853	126.477	106.92	110.834	102.534	117.555			
4/12/2007	7:00		131.984	127.587	107.504	111.11	102.925	117.918			
4/12/2007	7:30		132.043	127.839	107.695	111.379	103.201	118.168			
4/12/2007	8:00		132.086	127.966	107.823	111.51	103.338	118.299			
4/12/2007	8:30		132.111	128.031	107.83	111.581	103.409	118.339			
4/12/2007	9:00		132.121	128.075	107.885	111.63	103.458	118.389			
4/12/2007	9:30		130.634	128.103	107.897	111.659	103.487	118.423			
4/12/2007	10:00		130.267	128.117	107.906	111.676	103.503	118.433			
4/12/2007	10:30		130.135	127.189	107.485	111.592	103.357	118.279			
4/12/2007	11:00		130.063	126.856	107.246	111.219	102.926	117.889			
4/12/2007	11:30		130.011	126.724	107.135	111.084	102.786	117.76			
4/12/2007	12:00		129.972	126.655	107.068	111.009	102.713	117.685			
4/12/2007	12:30		129.945	126.604	107.023	110.956	102.659	117.636			
4/12/2007	13:00		129.908	126.567	106.987	110.92	102.624	117.597			
4/12/2007	13:30		129.881	126.537	106.963	110.891	102.593	117.57			
4/12/2007	14:00		129.856	126.502	106.941	110.859	102.56	117.546			
4/12/2007	14:30		129.84	126.474	106.922	110.832	102.536	117.523			
4/12/2007	15:00		129.82	126.447	106.906	110.802	102.503	117.503			
4/12/2007	15:30		129.806	126.433	106.894	110.792	102.494	117.488			
4/12/2007	16:00		129.797	126.412	106.88	110.769	102.475	117.471			
4/12/2007	16:30		129.786	126.398	106.87	110.752	102.456	117.461			
4/12/2007	17:00		129.788	126.391	106.861	110.747	102.447	117.45			
4/12/2007	17:30		129.781	126.379	106.853	110.737	102.435	117.435			
4/12/2007	18:00		129.779	126.379	106.844	110.733	102.435	117.428			
4/12/2007	18:30		129.77	126.375	106.837	110.729	102.43	117.418			
4/12/2007	19:00		129.766	126.373	106.83	110.727	102.43	117.409			
4/12/2007	19:30		129.779	126.361	106.825	110.72	102.418	117.399			
4/12/2007	20:00		129.797	126.357	106.818	110.714	102.411	117.398			
4/12/2007	20:30		129.804	126.373	106.808	110.72	102.421	117.383			
4/12/2007	21:00		129.818	126.389	106.832	110.748	102.447	117.394			
4/12/2007	21:30		129.815	126.398	106.851	110.754	102.454	117.383			
4/12/2007	22:00		129.811	126.412	106.882	110.769	102.468	117.392			
4/12/2007	22:30		129.804	126.407	106.861	110.767	102.466	117.401			
4/12/2007	23:00		129.802	126.403	106.853	110.764	102.463	117.388			
4/12/2007	23:30		129.795	126.396	106.844	110.762	102.461	117.383			
4/13/2007	0:00		129.79	126.396	106.835	110.752	102.451	117.369			
4/13/2007	0:30		129.788	126.386	106.827	110.75	102.444	117.375			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/13/2007	1:00		129.795	126.382	106.868	110.739	102.44	117.371			
4/13/2007	1:30		129.793	126.382	106.839	110.741	102.442	117.368			
4/13/2007	2:00		129.763	126.389	106.829	110.747	102.444	117.368			
4/13/2007	2:30		129.766	126.386	106.822	110.748	102.447	117.458			
4/13/2007	3:00		129.761	126.356	106.815	110.72	102.421	117.448			
4/13/2007	3:30		129.761	126.359	106.804	110.716	102.416	117.446			
4/13/2007	4:00		129.768	126.354	106.799	110.712	102.411	117.433			
4/13/2007	4:30		129.754	126.356	106.808	110.708	102.409	117.422			
4/13/2007	5:00		129.741	126.361	106.794	110.726	102.421	117.416			
4/13/2007	5:30		129.738	126.345	106.787	110.708	102.407	117.411			
4/13/2007	6:00		131.438	126.331	106.78	110.689	102.388	117.395			
4/13/2007	6:30		131.708	126.329	106.775	110.695	102.393	117.395			
4/13/2007	7:00		131.826	127.552	107.34	110.966	102.784	117.767			
4/13/2007	7:30		131.898	127.818	107.542	111.249	103.083	118.031			
4/13/2007	8:00		131.93	127.941	107.659	111.375	103.211	118.151			
4/13/2007	8:30		131.937	128.01	107.716	111.457	103.293	118.216			
4/13/2007	9:00		131.962	128.043	107.756	111.489	103.326	118.265			
4/13/2007	9:30		131.982	128.05	107.783	111.495	103.333	118.297			
4/13/2007	10:00		132.005	128.077	107.875	111.527	103.364	118.408			
4/13/2007	10:30		132.018	128.096	107.973	111.541	103.381	118.418			
4/13/2007	11:00		132.03	128.124	107.99	111.573	103.409	118.446			
4/13/2007	11:30		132.025	128.133	107.997	111.585	103.423	118.453			
4/13/2007	12:00		132.009	128.142	107.999	111.592	103.428	118.464			
4/13/2007	12:30		132.005	128.142	107.99	111.598	103.433	118.47			
4/13/2007	13:00		132.027	128.124	107.987	111.581	103.418	118.457			
4/13/2007	13:30		132.043	128.124	107.975	111.571	103.407	118.453			
4/13/2007	14:00		132.046	128.142	107.987	111.592	103.428	118.536			
4/13/2007	14:30		132.05	128.158	107.995	111.611	103.447	118.545			
4/13/2007	15:00		132.046	128.163	108.007	111.617	103.451	118.553			
4/13/2007	15:30		132.041	128.165	108.011	111.619	103.451	118.547			
4/13/2007	16:00		132.037	128.158	107.997	111.619	103.451	118.543			
4/13/2007	16:30		132.025	128.154	107.968	111.607	103.442	118.537			
4/13/2007	17:00		132.016	128.151	107.94	111.604	103.437	118.534			
4/13/2007	17:30		132.032	128.14	107.959	111.594	103.43	118.534			
4/13/2007	18:00		132.052	128.131	107.968	111.581	103.414	118.528			
4/13/2007	18:30		132.073	128.145	107.976	111.6	103.433	118.54			
4/13/2007	19:00		132.084	128.165	107.988	111.615	103.444	118.545			
4/13/2007	19:30		132.086	128.184	107.999	111.642	103.47	118.543			
4/13/2007	20:00		132.093	128.195	108.007	111.651	103.484	118.553			
4/13/2007	20:30		132.102	128.198	108.014	111.653	103.484	118.592			
4/13/2007	21:00		132.114	128.207	108.025	111.661	103.491	118.579			
4/13/2007	21:30		132.125	128.214	108.032	111.666	103.499	118.583			
4/13/2007	22:00		132.13	128.226	108.038	111.684	103.515	118.596			
4/13/2007	22:30		132.121	128.237	108.045	111.693	103.524	118.598			
4/13/2007	23:00		132.096	128.242	108.049	111.697	103.529	118.6			
4/13/2007	23:30		132.071	128.235	108.051	111.691	103.524	118.596			
4/14/2007	0:00		132.082	128.207	108.051	111.665	103.496	118.639			
4/14/2007	0:30		132.1	128.182	108.037	111.64	103.47	118.626			
4/14/2007	1:00		132.121	128.193	108.047	111.644	103.475	118.626			
4/14/2007	1:30		132.125	128.212	108.056	111.665	103.496	118.631			
4/14/2007	2:00		132.139	128.23	108.064	111.689	103.52	118.633			
4/14/2007	2:30		132.13	128.237	108.069	111.693	103.524	118.631			
4/14/2007	3:00		132.123	128.249	108.076	111.71	103.539	118.694			
4/14/2007	3:30		132.114	128.239	108.08	111.699	103.532	118.684			
4/14/2007	4:00		132.111	128.23	108.083	111.691	103.522	118.686			
4/14/2007	4:30		132.114	128.226	108.087	111.684	103.517	118.682			
4/14/2007	5:00		132.123	128.221	108.078	111.682	103.513	118.682			
4/14/2007	5:30		132.127	128.223	108.085	111.682	103.513	118.675			
4/14/2007	6:00		132.136	128.232	108.094	111.691	103.522	118.678			
4/14/2007	6:30		132.15	128.239	108.099	111.701	103.532	118.684			
4/14/2007	7:00		130.526	128.249	108.107	111.706	103.536	118.68			
4/14/2007	7:30		130.256	128.258	108.114	111.718	103.55	118.684			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/14/2007	8:00		130.131	127.083	107.58	111.47	103.185	118.357			
4/14/2007	8:30		130.058	126.824	107.38	111.204	102.9	118.119			
4/14/2007	9:00		130.004	126.701	107.277	111.074	102.765	118			
4/14/2007	9:30		129.967	126.629	107.192	110.998	102.694	117.927			
4/14/2007	10:00		129.94	126.576	107.159	110.948	102.64	117.888			
4/14/2007	10:30		129.911	126.541	107.13	110.91	102.602	117.854			
4/14/2007	11:00		129.895	126.511	107.108	110.886	102.581	117.993			
4/14/2007	11:30		129.879	126.488	107.061	110.859	102.551	117.939			
4/14/2007	12:00		129.856	126.47	107.063	110.844	102.536	117.922			
4/14/2007	12:30		129.834	126.453	107.053	110.828	102.52	117.91			
4/14/2007	13:00		129.822	126.43	107.013	110.807	102.499	117.895			
4/14/2007	13:30		129.811	126.407	107.016	110.787	102.477	117.88			
4/14/2007	14:00		129.797	126.396	106.992	110.771	102.463	117.867			
4/14/2007	14:30		129.784	126.384	106.989	110.76	102.451	117.858			
4/14/2007	15:00		129.772	126.373	106.984	110.752	102.44	117.848			
4/14/2007	15:30		129.763	126.359	106.961	110.737	102.426	117.839			
4/14/2007	16:00		129.759	126.347	106.958	110.727	102.418	117.831			
4/14/2007	16:30		129.763	126.342	106.953	110.72	102.409	117.824			
4/14/2007	17:00		129.766	126.335	106.951	110.716	102.407	117.82			
4/14/2007	17:30		129.766	126.34	106.949	110.718	102.409	117.814			
4/14/2007	18:00		129.768	126.34	106.947	110.722	102.411	117.812			
4/14/2007	18:30		129.768	126.342	106.946	110.722	102.414	117.809			
4/14/2007	19:00		129.77	126.345	106.944	110.724	102.416	117.805			
4/14/2007	19:30		129.775	126.347	106.942	110.726	102.414	117.803			
4/14/2007	20:00		129.781	126.349	106.941	110.726	102.416	117.8			
4/14/2007	20:30		129.786	126.354	106.939	110.731	102.423	117.796			
4/14/2007	21:00		129.79	126.363	106.939	110.739	102.428	117.794			
4/14/2007	21:30		129.788	126.37	106.937	110.745	102.44	117.79			
4/14/2007	22:00		129.786	126.373	106.935	110.748	102.442	117.786			
4/14/2007	22:30		129.779	126.37	106.93	110.747	102.44	117.786			
4/14/2007	23:00		129.779	126.368	106.925	110.745	102.437	117.779			
4/14/2007	23:30		129.775	126.361	106.92	110.739	102.43	117.775			
4/15/2007	0:00		129.77	126.359	106.915	110.735	102.428	117.771			
4/15/2007	0:30		129.766	126.356	106.91	110.735	102.426	117.768			
4/15/2007	1:00		129.759	126.354	106.904	110.729	102.423	117.764			
4/15/2007	1:30		129.754	126.349	106.897	110.726	102.421	117.756			
4/15/2007	2:00		129.743	126.342	106.892	110.72	102.411	117.751			
4/15/2007	2:30		129.741	126.338	106.887	110.714	102.407	117.745			
4/15/2007	3:00		129.734	126.329	106.88	110.705	102.397	117.741			
4/15/2007	3:30		129.736	126.324	106.877	110.703	102.393	117.734			
4/15/2007	4:00		129.741	126.317	106.868	110.695	102.385	117.73			
4/15/2007	4:30		129.736	126.319	106.865	110.693	102.385	117.72			
4/15/2007	5:00		129.734	126.322	106.861	110.699	102.39	117.719			
4/15/2007	5:30		129.734	126.322	106.856	110.697	102.388	117.713			
4/15/2007	6:00		129.736	126.317	106.851	110.697	102.385	117.709			
4/15/2007	6:30		129.734	126.317	106.846	110.691	102.381	117.702			
4/15/2007	7:00		131.485	126.319	106.842	110.697	102.388	117.702			
4/15/2007	7:30		131.698	126.319	106.839	110.695	102.385	117.696			
4/15/2007	8:00		131.807	127.462	107.402	111.011	102.822	118.083			
4/15/2007	8:30		131.864	127.673	107.568	111.238	103.053	118.25			
4/15/2007	9:00		131.912	127.781	107.654	111.352	103.168	118.324			
4/15/2007	9:30		131.944	127.846	107.708	111.419	103.234	118.363			
4/15/2007	10:00		130.53	127.892	107.74	111.468	103.286	118.478			
4/15/2007	10:30		130.135	127.927	107.763	111.503	103.322	118.519			
4/15/2007	11:00		129.997	127.064	107.37	111.489	103.303	118.477			
4/15/2007	11:30		129.915	126.71	107.13	111.095	102.796	118.014			
4/15/2007	12:00		129.856	126.574	107.022	110.952	102.65	117.889			
4/15/2007	12:30		129.818	126.495	106.96	110.872	102.567	117.816			
4/15/2007	13:00		129.786	126.435	106.92	110.811	102.503	117.768			
4/15/2007	13:30		129.763	126.398	106.891	110.771	102.461	117.734			
4/15/2007	14:00		129.747	126.366	106.87	110.745	102.435	117.709			
4/15/2007	14:30		129.729	126.345	106.856	110.716	102.409	117.69			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/15/2007	15:00		129.711	126.329	106.842	110.703	102.393	117.674			
4/15/2007	15:30		129.695	126.31	106.832	110.688	102.378	117.664			
4/15/2007	16:00		129.682	126.292	106.825	110.668	102.357	117.651			
4/15/2007	16:30		129.675	126.275	106.818	110.649	102.343	117.642			
4/15/2007	17:00		129.668	126.261	106.813	110.642	102.326	117.632			
4/15/2007	17:30		129.666	126.257	106.81	110.632	102.324	117.627			
4/15/2007	18:00		129.659	126.248	106.804	110.625	102.319	117.621			
4/15/2007	18:30		129.657	126.243	106.803	110.621	102.312	117.619			
4/15/2007	19:00		129.654	126.236	106.799	110.615	102.305	117.611			
4/15/2007	19:30		129.654	126.238	106.799	110.615	102.303	117.61			
4/15/2007	20:00		129.657	126.236	106.798	110.611	102.303	117.606			
4/15/2007	20:30		129.661	126.234	106.796	110.611	102.301	117.604			
4/15/2007	21:00		129.668	126.238	106.796	110.613	102.305	117.604			
4/15/2007	21:30		129.67	126.241	106.796	110.619	102.308	117.604			
4/15/2007	22:00		129.673	126.248	106.794	110.625	102.315	117.568			
4/15/2007	22:30		129.666	126.252	106.792	110.63	102.317	117.565			
4/15/2007	23:00		129.668	126.252	106.791	110.63	102.319	117.569			
4/15/2007	23:30		129.668	126.248	106.789	110.625	102.315	117.563			
4/16/2007	0:00		129.668	126.248	106.785	110.625	102.317	117.557			
4/16/2007	0:30		129.67	126.25	106.782	110.627	102.317	117.555			
4/16/2007	1:00		129.668	126.248	106.78	110.627	102.319	117.551			
4/16/2007	1:30		129.657	126.252	106.777	110.63	102.319	117.555			
4/16/2007	2:00		129.643	126.252	106.773	110.63	102.319	117.561			
4/16/2007	2:30		129.638	126.238	106.77	110.621	102.31	117.559			
4/16/2007	3:00		129.632	126.224	106.767	110.604	102.296	117.546			
4/16/2007	3:30		129.636	126.222	106.763	110.598	102.289	117.537			
4/16/2007	4:00		129.641	126.215	106.76	110.592	102.286	117.536			
4/16/2007	4:30		129.641	126.218	106.756	110.596	102.286	117.518			
4/16/2007	5:00		129.645	126.222	106.754	110.6	102.291	117.493			
4/16/2007	5:30		129.638	126.222	106.753	110.602	102.291	117.491			
4/16/2007	6:00		131.381	126.227	106.749	110.604	102.293	117.486			
4/16/2007	6:30		131.615	126.222	106.748	110.602	102.293	117.484			
4/16/2007	7:00		131.728	127.351	107.306	110.889	102.694	117.892			
4/16/2007	7:30		131.796	127.585	107.492	111.143	102.958	118.203			
4/16/2007	8:00		131.832	127.698	107.587	111.265	103.081	118.318			
4/16/2007	8:30		131.86	127.765	107.647	111.339	103.157	118.387			
4/16/2007	9:00		131.875	127.807	107.685	111.381	103.199	118.427			
4/16/2007	9:30		130.142	127.832	107.713	111.406	103.223	118.453			
4/16/2007	10:00		129.942	127.851	107.733	111.428	103.244	118.474			
4/16/2007	10:30		129.856	126.708	107.166	111.105	102.808	118.051			
4/16/2007	11:00		129.795	126.514	107.015	110.897	102.593	117.843			
4/16/2007	11:30		129.745	126.428	106.934	110.807	102.499	117.754			
4/16/2007	12:00		129.707	126.373	106.884	110.747	102.442	117.704			
4/16/2007	12:30		129.677	126.319	106.854	110.697	102.388	117.668			
4/16/2007	13:00		129.652	126.282	106.829	110.661	102.355	117.644			
4/16/2007	13:30		129.629	126.255	106.813	110.634	102.324	117.625			
4/16/2007	14:00		129.602	126.229	106.799	110.604	102.298	117.604			
4/16/2007	14:30		129.589	126.206	106.785	110.583	102.277	117.591			
4/16/2007	15:00		129.57	126.181	106.777	110.558	102.249	117.58			
4/16/2007	15:30		129.55	126.169	106.768	110.545	102.239	117.57			
4/16/2007	16:00		129.539	126.15	106.744	110.528	102.22	117.563			
4/16/2007	16:30		129.541	126.132	106.744	110.508	102.204	117.555			
4/16/2007	17:00		129.545	126.118	106.723	110.497	102.187	117.548			
4/16/2007	17:30		129.545	126.12	106.725	110.499	102.19	117.542			
4/16/2007	18:00		129.548	126.123	106.725	110.505	102.194	117.536			
4/16/2007	18:30		129.545	126.125	106.729	110.504	102.194	117.51			
4/16/2007	19:00		129.548	126.125	106.729	110.505	102.194	117.512			
4/16/2007	19:30		129.552	126.125	106.729	110.505	102.197	117.512			
4/16/2007	20:00		129.561	126.127	106.73	110.507	102.197	117.51			
4/16/2007	20:30		129.57	126.132	106.732	110.51	102.199	117.51			
4/16/2007	21:00		129.575	126.141	106.734	110.518	102.211	117.51			
4/16/2007	21:30		129.58	126.148	106.735	110.529	102.218	117.512			

TABLE S3.2 (Cont.)

		Depth below Top of Casing (ft)									
Date	Time	MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/16/2007	22:00		129.586	126.155	106.735	110.533	102.223	117.512			
4/16/2007	22:30		129.584	126.162	106.737	110.539	102.23	117.512			
4/16/2007	23:00		129.58	126.164	106.739	110.543	102.232	117.516			
4/16/2007	23:30		129.577	126.164	106.737	110.545	102.237	117.512			
4/17/2007	0:00		129.575	126.16	106.735	110.543	102.232	117.516			
4/17/2007	0:30		129.57	126.157	106.734	110.539	102.227	117.514			
4/17/2007	1:00		129.564	126.157	106.734	110.535	102.225	117.51			
4/17/2007	1:30		129.557	126.15	106.73	110.533	102.223	117.508			
4/17/2007	2:00		129.543	126.146	106.729	110.528	102.218	117.508			
4/17/2007	2:30		129.541	126.139	106.727	110.522	102.209	117.508			
4/17/2007	3:00		129.536	126.127	106.725	110.508	102.197	117.499			
4/17/2007	3:30		129.534	126.123	106.723	110.503	102.19	117.492			
4/17/2007	4:00		129.539	126.118	106.72	110.501	102.19	117.489			
4/17/2007	4:30		129.532	126.116	106.72	110.497	102.187	117.486			
4/17/2007	5:00		129.53	126.12	106.72	110.499	102.19	117.484			
4/17/2007	5:30		129.532	126.113	106.718	110.499	102.187	117.482			
4/17/2007	6:00		131.413	126.109	106.718	110.491	102.178	117.48			
4/17/2007	6:30		131.587	126.312	107.02	110.493	102.18	117.475			
4/17/2007	7:00		131.676	127.374	107.378	110.92	102.727	118.002			
4/17/2007	7:30		131.728	127.548	107.527	111.11	102.925	118.17			
4/17/2007	8:00		131.771	127.638	107.609	111.211	103.025	118.277			
4/17/2007	8:30		131.807	127.693	107.663	111.267	103.081	118.374			
4/17/2007	9:00		131.812	127.737	107.702	111.308	103.124	118.41			
4/17/2007	9:30		131.823	127.772	107.732	111.346	103.161	118.434			
4/17/2007	10:00		131.823	127.781	107.733	111.362	103.178	118.451			
4/17/2007	10:30		131.835	127.793	107.754	111.371	103.187	118.464			
4/17/2007	11:00		131.844	127.795	107.768	111.381	103.197	118.47			
4/17/2007	11:30		130.19	127.804	107.764	111.392	103.206	118.474			
4/17/2007	12:00		129.922	127.814	107.778	111.4	103.213	118.489			
4/17/2007	12:30		129.795	126.747	107.263	111.158	102.869	118.179			
4/17/2007	13:00		129.722	126.49	107.053	110.886	102.579	117.931			
4/17/2007	13:30		129.675	126.368	106.954	110.752	102.442	117.809			
4/17/2007	14:00		129.636	126.296	106.873	110.676	102.369	117.736			
4/17/2007	14:30		129.607	126.25	106.844	110.628	102.322	117.694			
4/17/2007	15:00		129.582	126.211	106.82	110.594	102.284	117.668			
4/17/2007	15:30		129.566	126.181	106.784	110.566	102.251	117.647			
4/17/2007	16:00		129.559	126.157	106.737	110.539	102.227	117.631			
4/17/2007	16:30		129.55	126.141	106.749	110.522	102.211	117.623			
4/17/2007	17:00		129.552	126.132	106.742	110.514	102.204	117.614			
4/17/2007	17:30		129.555	126.127	106.737	110.51	102.194	117.608			
4/17/2007	18:00		129.552	126.127	106.732	110.512	102.199	117.584			
4/17/2007	18:30		129.557	126.132	106.73	110.516	102.204	117.584			
4/17/2007	19:00		129.552	126.13	106.727	110.512	102.199	117.578			
4/17/2007	19:30		129.55	126.13	106.727	110.516	102.202	117.574			
4/17/2007	20:00		129.552	126.13	106.725	110.512	102.199	117.57			
4/17/2007	20:30		129.559	126.127	106.723	110.51	102.199	117.57			
4/17/2007	21:00		129.582	126.13	106.722	110.516	102.202	117.567			
4/17/2007	21:30		129.589	126.139	106.722	110.52	102.206	117.559			
4/17/2007	22:00		129.584	126.153	106.725	110.529	102.213	117.567			
4/17/2007	22:30		129.584	126.167	106.723	110.548	102.235	117.567			
4/17/2007	23:00		129.584	126.16	106.72	110.547	102.232	117.563			
4/17/2007	23:30		129.586	126.162	106.717	110.548	102.232	117.557			
4/18/2007	0:00		129.586	126.162	106.713	110.545	102.232	117.553			
4/18/2007	0:30		129.586	126.164	106.71	110.552	102.239	117.553			
4/18/2007	1:00		129.582	126.164	106.703	110.552	102.237	117.546			
4/18/2007	1:30		129.564	126.167	106.699	110.55	102.237	117.535			
4/18/2007	2:00		129.557	126.16	106.694	110.545	102.232	117.525			
4/18/2007	2:30		129.548	126.143	106.689	110.529	102.218	117.52			
4/18/2007	3:00		129.555	126.139	106.686	110.522	102.209	117.516			
4/18/2007	3:30		129.548	126.127	106.68	110.514	102.197	117.51			
4/18/2007	4:00		129.536	126.132	106.677	110.52	102.206	117.507			
4/18/2007	4:30		129.527	126.125	106.673	110.512	102.199	117.501			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/18/2007	5:00		129.521	126.118	106.668	110.503	102.187	117.497			
4/18/2007	5:30		129.525	126.106	106.667	110.497	102.18	117.493			
4/18/2007	6:00		131.288	126.1	106.663	110.486	102.171	117.488			
4/18/2007	6:30		131.531	126.104	106.661	110.488	102.173	117.484			
4/18/2007	7:00		131.644	127.256	107.235	110.804	102.607	117.873			
4/18/2007	7:30		131.71	127.494	107.421	111.063	102.874	118.158			
4/18/2007	8:00		131.755	127.61	107.52	111.188	102.999	118.269			
4/18/2007	8:30		131.782	127.677	107.58	111.257	103.069	118.329			
4/18/2007	9:00		130.92	127.724	107.618	111.307	103.119	118.371			
4/18/2007	9:30		129.986	127.751	107.645	111.339	103.152	118.393			
4/18/2007	10:00		129.827	127.198	107.356	111.366	103.178	118.416			
4/18/2007	10:30		129.747	126.553	107.034	110.956	102.65	117.937			
4/18/2007	11:00		129.697	126.403	106.904	110.79	102.48	117.781			
4/18/2007	11:30		129.654	126.322	106.832	110.707	102.395	117.696			
4/18/2007	12:00		129.623	126.273	106.789	110.655	102.343	117.642			
4/18/2007	12:30		129.593	126.231	106.76	110.615	102.303	117.612			
4/18/2007	13:00		129.566	126.199	106.737	110.581	102.27	117.584			
4/18/2007	13:30		129.552	126.167	106.72	110.55	102.242	117.565			
4/18/2007	14:00		129.534	126.143	106.706	110.529	102.216	117.552			
4/18/2007	14:30		129.518	126.13	106.698	110.514	102.204	117.54			
4/18/2007	15:00		129.505	126.111	106.689	110.495	102.185	117.529			
4/18/2007	15:30		129.493	126.095	106.68	110.48	102.168	117.486			
4/18/2007	16:00		129.482	126.083	106.675	110.467	102.157	117.493			
4/18/2007	16:30		129.471	126.069	106.67	110.457	102.145	117.488			
4/18/2007	17:00		129.461	126.058	106.667	110.444	102.133	117.486			
4/18/2007	17:30		129.462	126.049	106.663	110.434	102.124	117.478			
4/18/2007	18:00		129.459	126.039	106.66	110.427	102.117	117.476			
4/18/2007	18:30		129.461	126.039	106.646	110.423	102.112	117.473			
4/18/2007	19:00		129.466	126.039	106.646	110.425	102.112	117.475			
4/18/2007	19:30		129.468	126.039	106.644	110.425	102.112	117.473			
4/18/2007	20:00		129.473	126.044	106.646	110.43	102.117	117.623			
4/18/2007	20:30		129.48	126.046	106.646	110.432	102.119	117.6			
4/18/2007	21:00		129.482	126.051	106.646	110.438	102.124	117.597			
4/18/2007	21:30		129.498	126.056	106.648	110.446	102.131	117.597			
4/18/2007	22:00		129.495	126.058	106.648	110.448	102.133	117.595			
4/18/2007	22:30		129.491	126.072	106.653	110.465	102.15	117.599			
4/18/2007	23:00		129.491	126.072	106.649	110.465	102.147	117.593			
4/18/2007	23:30		129.491	126.067	106.648	110.457	102.14	117.593			
4/19/2007	0:00		129.496	126.067	106.646	110.453	102.138	117.589			
4/19/2007	0:30		129.505	126.069	106.644	110.455	102.145	117.587			
4/19/2007	1:00		129.505	126.074	106.642	110.461	102.147	117.584			
4/19/2007	1:30		129.507	126.079	106.642	110.468	102.157	117.583			
4/19/2007	2:00		129.507	126.081	106.639	110.472	102.159	117.58			
4/19/2007	2:30		129.502	126.083	106.637	110.472	102.159	117.578			
4/19/2007	3:00		129.489	126.086	106.632	110.472	102.159	117.572			
4/19/2007	3:30		129.482	126.081	106.629	110.47	102.157	117.569			
4/19/2007	4:00		129.471	126.067	106.625	110.459	102.145	117.563			
4/19/2007	4:30		129.473	126.06	106.62	110.446	102.131	117.559			
4/19/2007	5:00		129.475	126.049	106.617	110.438	102.124	117.553			
4/19/2007	5:30		129.475	126.051	106.613	110.442	102.126	117.548			
4/19/2007	6:00		131.217	126.053	106.611	110.442	102.128	117.544			
4/19/2007	6:30		131.492	126.053	106.61	110.442	102.128	117.542			
4/19/2007	7:00		131.626	127.314	107.213	110.75	102.565	117.952			
4/19/2007	7:30		131.689	127.582	107.418	111.036	102.857	118.196			
4/19/2007	8:00		131.739	127.717	107.527	111.181	103.003	118.295			
4/19/2007	8:30		130.943	127.786	107.594	111.255	103.079	118.348			
4/19/2007	9:00		129.931	127.835	107.637	111.305	103.128	118.397			
4/19/2007	9:30		129.768	127.196	107.327	111.339	103.161	118.417			
4/19/2007	10:00		129.682	126.497	106.987	110.907	102.598	117.953			
4/19/2007	10:30		129.627	126.34	106.853	110.735	102.423	117.797			
4/19/2007	11:00		129.575	126.252	106.779	110.64	102.326	117.713			
4/19/2007	11:30		129.545	126.199	106.732	110.585	102.275	117.66			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/19/2007	12:00		129.521	126.148	106.703	110.539	102.227	117.627			
4/19/2007	12:30		129.489	126.123	106.679	110.508	102.199	117.6			
4/19/2007	13:00		129.473	126.095	106.663	110.484	102.173	117.584			
4/19/2007	13:30		129.457	126.063	106.649	110.453	102.138	117.57			
4/19/2007	14:00		129.45	126.042	106.639	110.427	102.114	117.559			
4/19/2007	14:30		129.439	126.032	106.632	110.417	102.107	117.552			
4/19/2007	15:00		129.43	126.021	106.625	110.406	102.095	117.546			
4/19/2007	15:30		129.425	126.009	106.62	110.4	102.084	117.538			
4/19/2007	16:00		129.425	126.005	106.618	110.39	102.077	117.533			
4/19/2007	16:30		129.425	126	106.615	110.388	102.072	117.529			
4/19/2007	17:00		129.425	126	106.615	110.387	102.072	117.527			
4/19/2007	17:30		129.428	126	106.613	110.388	102.074	117.523			
4/19/2007	18:00		129.432	126	106.611	110.39	102.077	117.519			
4/19/2007	18:30		129.439	126.002	106.61	110.392	102.077	117.52			
4/19/2007	19:00		129.446	126.007	106.61	110.396	102.084	117.516			
4/19/2007	19:30		129.452	126.014	106.61	110.402	102.088	117.518			
4/19/2007	20:00		129.462	126.021	106.61	110.411	102.095	117.518			
4/19/2007	20:30		129.473	126.03	106.611	110.419	102.105	117.512			
4/19/2007	21:00		129.484	126.042	106.611	110.43	102.114	117.516			
4/19/2007	21:30		129.498	126.051	106.61	110.44	102.126	117.514			
4/19/2007	22:00		129.491	126.063	106.608	110.455	102.138	117.512			
4/19/2007	22:30		129.489	126.072	106.605	110.461	102.147	117.51			
4/19/2007	23:00		129.498	126.067	106.601	110.457	102.143	117.508			
4/19/2007	23:30		129.502	126.067	106.596	110.457	102.14	117.499			
4/20/2007	0:00		129.5	126.076	106.591	110.465	102.15	117.499			
4/20/2007	0:30		129.498	126.083	106.586	110.472	102.159	117.493			
4/20/2007	1:00		129.498	126.081	106.58	110.472	102.157	117.497			
4/20/2007	1:30		129.489	126.076	106.575	110.468	102.152	117.492			
4/20/2007	2:00		129.48	126.074	106.568	110.465	102.15	117.488			
4/20/2007	2:30		129.477	126.065	106.563	110.455	102.143	117.482			
4/20/2007	3:00		129.473	126.058	106.558	110.451	102.135	117.475			
4/20/2007	3:30		129.468	126.056	106.551	110.446	102.131	117.467			
4/20/2007	4:00		129.471	126.049	106.546	110.44	102.124	117.461			
4/20/2007	4:30		129.464	126.046	106.539	110.436	102.121	117.456			
4/20/2007	5:00		129.464	126.049	106.534	110.44	102.124	117.454			
4/20/2007	5:30		129.466	126.042	106.529	110.432	102.117	117.45			
4/20/2007	6:00		131.374	126.044	106.524	110.432	102.119	117.445			
4/20/2007	6:30		131.562	126.442	106.861	110.434	102.119	117.441			
4/20/2007	7:00		131.662	127.462	107.234	110.905	102.723	117.888			
4/20/2007	7:30		131.719	127.649	107.384	111.108	102.933	118.126			
4/20/2007	8:00		131.757	127.751	107.47	111.219	103.039	118.254			
4/20/2007	8:30		131.787	127.809	107.523	111.28	103.105	118.312			
4/20/2007	9:00		131.81	127.851	107.559	111.322	103.145	118.344			
4/20/2007	9:30		131.823	127.881	107.587	111.352	103.178	118.372			
4/20/2007	10:00		131.832	127.904	107.606	111.381	103.201	118.389			
4/20/2007	10:30		131.835	127.918	107.621	111.392	103.216	118.404			
4/20/2007	11:00		131.841	127.925	107.635	111.402	103.225	118.414			
4/20/2007	11:30		130.328	127.932	107.645	111.404	103.232	118.425			
4/20/2007	12:00		129.927	127.939	107.658	111.413	103.237	118.429			
4/20/2007	12:30		129.766	126.863	107.178	111.301	103.048	118.245			
4/20/2007	13:00		129.668	126.49	106.923	110.895	102.584	117.829			
4/20/2007	13:30		129.607	126.333	106.798	110.726	102.416	117.676			
4/20/2007	14:00		129.568	126.241	106.723	110.632	102.315	117.587			
4/20/2007	14:30		129.527	126.178	106.673	110.562	102.249	117.535			
4/20/2007	15:00		129.498	126.137	106.642	110.522	102.209	117.495			
4/20/2007	15:30		129.471	126.1	106.617	110.482	102.173	117.465			
4/20/2007	16:00		129.448	126.074	106.598	110.459	102.143	117.441			
4/20/2007	16:30		129.437	126.039	106.586	110.43	102.114	117.428			
4/20/2007	17:00		129.428	126.021	106.573	110.409	102.095	117.413			
4/20/2007	17:30		129.418	126.007	106.567	110.396	102.081	117.398			
4/20/2007	18:00		129.418	125.998	106.561	110.383	102.069	117.392			
4/20/2007	18:30		129.412	125.993	106.556	110.384	102.067	117.388			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/20/2007	19:00		129.405	125.993	106.553	110.383	102.065	117.384			
4/20/2007	19:30		129.409	125.984	106.549	110.377	102.058	117.383			
4/20/2007	20:00		129.418	125.982	106.548	110.369	102.053	117.375			
4/20/2007	20:30		129.427	125.984	106.548	110.373	102.058	117.375			
4/20/2007	21:00		129.434	125.993	106.546	110.381	102.062	117.368			
4/20/2007	21:30		129.439	126.002	106.544	110.39	102.074	117.368			
4/20/2007	22:00		129.441	126.009	106.544	110.4	102.084	117.364			
4/20/2007	22:30		129.439	126.014	106.542	110.408	102.086	117.366			
4/20/2007	23:00		129.441	126.014	106.541	110.408	102.088	117.36			
4/20/2007	23:30		129.441	126.016	106.537	110.409	102.091	117.356			
4/21/2007	0:00		129.446	126.016	106.536	110.409	102.093	117.356			
4/21/2007	0:30		129.437	126.016	106.532	110.408	102.093	117.349			
4/21/2007	1:00		129.423	126.016	106.529	110.415	102.098	117.347			
4/21/2007	1:30		129.407	126.009	106.527	110.404	102.088	117.341			
4/21/2007	2:00		129.4	125.998	106.522	110.39	102.072	117.341			
4/21/2007	2:30		129.391	125.984	106.518	110.377	102.058	117.336			
4/21/2007	3:00		129.384	125.975	106.515	110.368	102.051	117.33			
4/21/2007	3:30		129.373	125.965	106.511	110.362	102.041	117.321			
4/21/2007	4:00		129.373	125.958	106.508	110.354	102.039	117.315			
4/21/2007	4:30		129.373	125.945	106.506	110.341	102.027	117.313			
4/21/2007	5:00		129.378	125.947	106.505	110.333	102.018	117.306			
4/21/2007	5:30		129.384	125.947	106.505	110.343	102.022	117.292			
4/21/2007	6:00		130.945	125.952	106.503	110.345	102.027	117.291			
4/21/2007	6:30		131.347	125.958	106.501	110.35	102.032	117.294			
4/21/2007	7:00		131.503	126.923	106.96	110.442	102.173	117.444			
4/21/2007	7:30		131.596	127.298	107.227	110.867	102.668	117.886			
4/21/2007	8:00		131.648	127.46	107.354	111.042	102.848	118.087			
4/21/2007	8:30		131.68	127.55	107.43	111.141	102.944	118.166			
4/21/2007	9:00		131.701	127.606	107.48	111.194	103.001	118.218			
4/21/2007	9:30		131.71	127.638	107.514	111.232	103.039	118.258			
4/21/2007	10:00		131.714	127.656	107.54	111.257	103.062	118.275			
4/21/2007	10:30		131.723	127.67	107.558	111.27	103.074	118.29			
4/21/2007	11:00		131.721	127.677	107.573	111.278	103.086	118.295			
4/21/2007	11:30		129.947	127.686	107.587	111.287	103.093	118.305			
4/21/2007	12:00		129.736	127.686	107.509	111.293	103.1	118.314			
4/21/2007	12:30		129.623	126.502	106.989	110.922	102.612	117.875			
4/21/2007	13:00		129.545	126.296	106.829	110.705	102.388	117.677			
4/21/2007	13:30		129.491	126.187	106.741	110.587	102.27	117.57			
4/21/2007	14:00		129.457	126.111	106.68	110.508	102.192	117.503			
4/21/2007	14:30		129.421	126.058	106.642	110.451	102.133	117.467			
4/21/2007	15:00		129.387	126.019	106.617	110.415	102.096	117.433			
4/21/2007	15:30		129.366	125.986	106.572	110.379	102.06	117.411			
4/21/2007	16:00		129.359	125.956	106.567	110.348	102.032	117.392			
4/21/2007	16:30		129.348	125.935	106.537	110.325	102.01	117.386			
4/21/2007	17:00		129.334	125.924	106.534	110.318	101.999	117.366			
4/21/2007	17:30		129.328	125.912	106.529	110.307	101.992	117.358			
4/21/2007	18:00		129.325	125.903	106.506	110.295	101.977	117.353			
4/21/2007	18:30		129.321	125.896	106.508	110.287	101.966	117.341			
4/21/2007	19:00		129.316	125.894	106.508	110.288	101.97	117.341			
4/21/2007	19:30		129.316	125.889	106.505	110.284	101.963	117.341			
4/21/2007	20:00		129.314	125.889	106.505	110.284	101.966	117.335			
4/21/2007	20:30		129.307	125.887	106.504	110.284	101.963	117.33			
4/21/2007	21:00		129.309	125.884	106.505	110.284	101.963	117.335			
4/21/2007	21:30		129.328	125.875	106.487	110.272	101.952	117.332			
4/21/2007	22:00		129.35	125.882	106.49	110.278	101.959	117.332			
4/21/2007	22:30		129.339	125.901	106.494	110.293	101.973	117.332			
4/21/2007	23:00		129.341	125.921	106.496	110.318	102.001	117.334			
4/21/2007	23:30		129.368	125.91	106.494	110.312	101.992	117.332			
4/22/2007	0:00		129.359	125.91	106.496	110.307	101.987	117.328			
4/22/2007	0:30		129.348	125.94	106.496	110.343	102.022	117.332			
4/22/2007	1:00		129.341	125.928	106.496	110.329	102.013	117.332			
4/22/2007	1:30		129.332	125.917	106.494	110.318	102.001	117.33			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/22/2007	2:00		129.31	125.912	106.492	110.314	101.999	117.324			
4/22/2007	2:30		129.296	125.901	106.491	110.305	101.987	117.328			
4/22/2007	3:00		129.287	125.882	106.489	110.28	101.963	117.317			
4/22/2007	3:30		129.266	125.866	106.486	110.263	101.947	117.313			
4/22/2007	4:00		129.26	125.857	106.484	110.255	101.937	117.307			
4/22/2007	4:30		129.25	125.838	106.465	110.238	101.921	117.309			
4/22/2007	5:00		129.25	125.831	106.446	110.232	101.916	117.311			
4/22/2007	5:30		129.216	125.82	106.427	110.219	101.9	117.313			
4/22/2007	6:00		129.212	125.813	106.41	110.219	101.897	117.307			
4/22/2007	6:30		129.21	125.79	106.399	110.189	101.871	117.311			
4/22/2007	7:00		129.21	125.787	106.403	110.177	101.864	117.311			
4/22/2007	7:30		131.068	125.783	106.406	110.181	101.862	117.306			
4/22/2007	8:00		131.27	125.78	106.667	110.181	101.862	117.306			
4/22/2007	8:30		131.374	127.145	107.092	110.609	102.426	117.867			
4/22/2007	9:00		131.458	127.351	107.259	110.823	102.64	118.102			
4/22/2007	9:30		131.503	127.453	107.349	110.943	102.758	118.209			
4/22/2007	10:00		130.374	127.536	107.428	111.028	102.845	118.235			
4/22/2007	10:30		129.673	127.585	107.475	111.076	102.892	118.305			
4/22/2007	11:00		129.5	126.794	107.096	111.112	102.93	118.337			
4/22/2007	11:30		129.409	126.229	106.789	110.653	102.336	117.777			
4/22/2007	12:00		129.357	126.063	106.656	110.47	102.154	117.599			
4/22/2007	12:30		129.33	125.972	106.567	110.375	102.058	117.512			
4/22/2007	13:00		129.316	125.921	106.523	110.322	101.999	117.446			
4/22/2007	13:30		129.296	125.898	106.499	110.293	101.975	117.411			
4/22/2007	14:00		129.296	125.877	106.482	110.28	101.961	117.39			
4/22/2007	14:30		129.298	125.861	106.47	110.263	101.942	117.379			
4/22/2007	15:00		129.298	125.866	106.463	110.265	101.944	117.368			
4/22/2007	15:30		129.298	125.866	106.458	110.267	101.944	117.358			
4/22/2007	16:00		129.309	125.868	106.456	110.263	101.942	117.356			
4/22/2007	16:30		129.323	125.871	106.453	110.269	101.949	117.35			
4/22/2007	17:00		129.328	125.88	106.453	110.278	101.963	117.345			
4/22/2007	17:30		129.341	125.894	106.449	110.293	101.975	117.338			
4/22/2007	18:00		129.359	125.898	106.449	110.297	101.98	117.336			
4/22/2007	18:30		129.371	125.912	106.448	110.31	101.992	117.326			
4/22/2007	19:00		129.373	125.933	106.443	110.331	102.015	117.324			
4/22/2007	19:30		129.396	125.945	106.439	110.345	102.027	117.317			
4/22/2007	20:00		129.414	125.949	106.434	110.348	102.032	117.315			
4/22/2007	20:30		129.43	125.97	106.51	110.371	102.053	117.307			
4/22/2007	21:00		129.439	125.986	106.529	110.388	102.069	117.298			
4/22/2007	21:30		129.443	126.002	106.539	110.405	102.088	117.29			
4/22/2007	22:00		129.455	126.012	106.551	110.409	102.093	117.289			
4/22/2007	22:30		129.457	126.019	106.558	110.421	102.102	117.281			
4/22/2007	23:00		129.459	126.028	106.565	110.43	102.114	117.27			
4/22/2007	23:30		129.464	126.03	106.568	110.432	102.117	117.268			
4/23/2007	0:00		129.455	126.035	106.57	110.436	102.119	117.307			
4/23/2007	0:30		129.455	126.037	106.572	110.438	102.121	117.309			
4/23/2007	1:00		129.448	126.03	106.567	110.428	102.114	117.302			
4/23/2007	1:30		129.443	126.028	106.563	110.43	102.117	117.292			
4/23/2007	2:00		129.441	126.023	106.558	110.428	102.11	117.285			
4/23/2007	2:30		129.439	126.019	106.553	110.421	102.105	117.277			
4/23/2007	3:00		129.439	126.014	106.549	110.419	102.102	117.27			
4/23/2007	3:30		129.448	126.012	106.546	110.409	102.093	117.26			
4/23/2007	4:00		129.448	126.014	106.551	110.409	102.095	117.251			
4/23/2007	4:30		129.457	126.021	106.558	110.421	102.105	117.245			
4/23/2007	5:00		129.462	126.026	106.561	110.425	102.107	117.24			
4/23/2007	5:30		129.462	126.032	106.57	110.43	102.114	117.236			
4/23/2007	6:00		131.229	126.037	106.57	110.434	102.119	117.227			
4/23/2007	6:30		131.481	126.037	106.57	110.438	102.121	117.215			
4/23/2007	7:00		131.605	127.187	107.159	110.743	102.541	117.619			
4/23/2007	7:30		131.676	127.432	107.356	111.009	102.819	117.865			
4/23/2007	8:00		131.705	127.557	107.465	111.145	102.956	118.017			
4/23/2007	8:30		131.737	127.631	107.521	111.225	103.034	118.083			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/23/2007	9:00		131.753	127.663	107.558	111.261	103.074	118.123			
4/23/2007	9:30		131.771	127.696	107.587	111.293	103.105	118.145			
4/23/2007	10:00		131.782	127.71	107.604	111.312	103.124	118.166			
4/23/2007	10:30		131.789	127.733	107.625	111.337	103.15	118.177			
4/23/2007	11:00		130.51	127.744	107.637	111.352	103.164	118.192			
4/23/2007	11:30		129.938	127.754	107.644	111.364	103.173	118.192			
4/23/2007	12:00		129.754	126.981	107.284	111.362	103.173	118.194			
4/23/2007	12:30		129.654	126.5	106.968	110.922	102.612	117.644			
4/23/2007	13:00		129.586	126.322	106.816	110.731	102.419	117.488			
4/23/2007	13:30		129.532	126.222	106.729	110.623	102.31	117.388			
4/23/2007	14:00		129.493	126.157	106.668	110.556	102.239	117.33			
4/23/2007	14:30		129.45	126.1	106.615	110.495	102.183	117.289			
4/23/2007	15:00		129.414	126.063	106.58	110.457	102.143	117.259			
4/23/2007	15:30		129.38	126.019	106.537	110.421	102.107	117.238			
4/23/2007	16:00		129.364	125.984	106.503	110.383	102.07	117.221			
4/23/2007	16:30		129.348	125.952	106.475	110.345	102.032	117.204			
4/23/2007	17:00		129.332	125.938	106.458	110.331	102.02	117.193			
4/23/2007	17:30		129.364	125.919	106.446	110.314	102.001	117.178			
4/23/2007	18:00		129.328	125.903	106.43	110.301	101.989	117.172			
4/23/2007	18:30		129.319	125.963	106.451	110.339	102.046	118.435			
4/23/2007	19:00		129.316	125.901	106.427	110.297	101.982	117.291			
4/23/2007	19:30		129.307	125.889	106.417	110.289	101.973	117.27			
4/23/2007	20:00		129.31	125.887	106.413	110.288	101.968	117.26			
4/23/2007	20:30		129.319	125.877	106.406	110.274	101.961	117.255			
4/23/2007	21:00		129.312	125.88	106.415	110.284	101.966	117.251			
4/23/2007	21:30		129.312	125.894	106.424	110.289	101.97	117.247			
4/23/2007	22:00		129.296	125.884	106.417	110.284	101.966	117.244			
4/23/2007	22:30		129.275	125.884	106.417	110.284	101.968	117.245			
4/23/2007	23:00		129.255	125.864	106.394	110.27	101.952	117.24			
4/23/2007	23:30		129.26	125.845	106.375	110.249	101.933	117.234			
4/24/2007	0:00		129.244	125.829	106.355	110.23	101.914	117.232			
4/24/2007	0:30		129.246	125.834	106.365	110.232	101.916	117.225			
4/24/2007	1:00		129.23	125.815	106.351	110.221	101.902	117.221			
4/24/2007	1:30		129.207	125.817	106.349	110.217	101.9	117.219			
4/24/2007	2:00		129.198	125.801	106.33	110.202	101.883	117.215			
4/24/2007	2:30		129.194	125.778	106.308	110.179	101.862	117.212			
4/24/2007	3:00		129.169	125.769	106.301	110.168	101.848	117.199			
4/24/2007	3:30		129.171	125.762	106.291	110.164	101.843	117.195			
4/24/2007	4:00		129.16	125.741	106.279	110.145	101.827	117.189			
4/24/2007	4:30		129.157	125.741	106.282	110.143	101.824	117.182			
4/24/2007	5:00		129.153	125.732	106.286	110.133	101.813	117.178			
4/24/2007	5:30		129.142	125.727	106.287	110.133	101.815	117.174			
4/24/2007	6:00		130.977	125.722	106.291	110.124	101.808	117.17			
4/24/2007	6:30		131.224	125.713	106.294	110.114	101.796	117.168			
4/24/2007	7:00		131.351	127.057	106.968	110.508	102.319	117.679			
4/24/2007	7:30		131.424	127.3	107.172	110.771	102.588	117.92			
4/24/2007	8:00		131.483	127.427	107.29	110.916	102.732	118.047			
4/24/2007	8:30		129.883	127.504	107.366	110.992	102.808	118.119			
4/24/2007	9:00		129.561	127.562	107.42	111.057	102.871	118.162			
4/24/2007	9:30		129.416	126.423	106.903	110.878	102.584	117.905			
4/24/2007	10:00		129.337	126.123	106.675	110.548	102.232	117.587			
4/24/2007	10:30		129.287	125.982	106.563	110.394	102.074	117.445			
4/24/2007	11:00		129.255	125.903	106.501	110.308	101.989	117.368			
4/24/2007	11:30		129.223	125.854	106.461	110.259	101.938	117.319			
4/24/2007	12:00		129.205	125.822	106.437	110.229	101.907	117.296			
4/24/2007	12:30		129.185	125.792	106.403	110.194	101.874	117.274			
4/24/2007	13:00		129.148	125.773	106.393	110.177	101.857	117.259			
4/24/2007	13:30		129.139	125.753	106.37	110.16	101.841	117.247			
4/24/2007	14:00		129.13	125.716	106.32	110.137	101.817	117.234			
4/24/2007	14:30		129.119	125.706	106.332	110.118	101.801	117.226			
4/24/2007	15:00		129.121	125.697	106.31	110.103	101.782	117.227			
4/24/2007	15:30		129.13	125.845	106.422	110.099	101.77	117.191			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/24/2007	16:00		129.121	125.801	106.394	110.109	101.784	117.208			
4/24/2007	16:30		129.128	125.797	106.377	110.114	101.791	117.21			
4/24/2007	17:00		129.119	125.797	106.31	110.097	101.777	117.214			
4/24/2007	17:30		129.114	125.799	106.241	110.107	101.787	117.215			
4/24/2007	18:00		129.133	125.801	106.263	110.105	101.782	117.215			
4/24/2007	18:30		129.142	125.806	106.279	110.095	101.772	117.219			
4/24/2007	19:00		129.128	125.803	106.281	110.103	101.777	117.215			
4/24/2007	19:30		129.139	125.808	106.282	110.118	101.796	117.217			
4/24/2007	20:00		129.207	125.81	106.284	110.107	101.782	117.221			
4/24/2007	20:30		129.228	125.81	106.286	110.122	101.801	117.219			
4/24/2007	21:00		129.205	125.803	106.289	110.154	101.827	117.215			
4/24/2007	21:30		129.187	125.808	106.513	110.209	101.886	117.225			
4/24/2007	22:00		129.157	125.827	106.458	110.194	101.876	117.225			
4/24/2007	22:30		129.153	125.81	106.446	110.173	101.853	117.223			
4/24/2007	23:00		129.153	125.808	106.444	110.148	101.829	117.219			
4/24/2007	23:30		129.164	125.806	106.432	110.135	101.81	117.214			
4/25/2007	0:00		129.164	125.803	106.394	110.135	101.817	117.212			
4/25/2007	0:30		129.146	125.799	106.358	110.145	101.822	117.229			
4/25/2007	1:00		129.13	125.799	106.346	110.145	101.822	117.202			
4/25/2007	1:30		129.126	125.801	106.327	110.133	101.815	117.206			
4/25/2007	2:00		129.117	125.799	106.313	110.114	101.796	117.225			
4/25/2007	2:30		129.119	125.799	106.313	110.11	101.789	117.24			
4/25/2007	3:00		129.126	125.799	106.298	110.097	101.775	117.197			
4/25/2007	3:30		129.144	125.799	106.299	110.103	101.78	117.232			
4/25/2007	4:00		129.151	125.797	106.26	110.11	101.789	117.242			
4/25/2007	4:30		129.148	125.794	106.244	110.122	101.796	117.244			
4/25/2007	5:00		129.144	125.799	106.227	110.135	101.813	117.236			
4/25/2007	5:30		129.139	125.799	106.235	110.135	101.81	117.249			
4/25/2007	6:00		131.084	125.799	106.256	110.124	101.801	117.253			
4/25/2007	6:30		131.288	125.991	106.573	110.126	101.803	117.259			
4/25/2007	7:00		131.406	127.087	106.953	110.581	102.378	117.721			
4/25/2007	7:30		131.481	127.286	107.127	110.809	102.614	117.801			
4/25/2007	8:00		131.526	127.397	107.227	110.939	102.742	117.954			
4/25/2007	8:30		131.56	127.467	107.29	111.025	102.824	118.029			
4/25/2007	9:00		131.587	127.511	107.33	111.08	102.881	118.076			
4/25/2007	9:30		131.608	127.538	107.358	111.114	102.916	118.111			
4/25/2007	10:00		131.608	127.564	107.378	111.143	102.947	118.132			
4/25/2007	10:30		131.614	127.578	107.394	111.166	102.975	118.138			
4/25/2007	11:00		131.626	127.589	107.406	111.167	102.973	118.173			
4/25/2007	11:30		131.635	127.596	107.415	111.179	102.984	118.181			
4/25/2007	12:00		130.124	127.603	107.423	111.196	103.001	118.175			
4/25/2007	12:30		129.716	127.61	107.43	111.207	103.013	118.243			
4/25/2007	13:00		129.545	126.676	106.977	111.124	102.869	118.089			
4/25/2007	13:30		129.464	126.31	106.711	110.707	102.388	117.634			
4/25/2007	14:00		129.382	126.153	106.577	110.526	102.204	117.471			
4/25/2007	14:30		129.346	126.067	106.501	110.438	102.117	117.317			
4/25/2007	15:00		129.314	126.009	106.448	110.366	102.041	117.259			
4/25/2007	15:30		129.307	125.963	106.408	110.32	101.996	117.21			
4/25/2007	16:00		129.289	125.935	106.382	110.291	101.973	117.174			
4/25/2007	16:30		129.278	125.917	106.363	110.278	101.954	117.15			
4/25/2007	17:00		129.271	125.898	106.348	110.267	101.944	117.161			
4/25/2007	17:30		129.262	125.882	106.334	110.255	101.94	117.12			
4/25/2007	18:00		129.26	125.873	106.324	110.251	101.928	117.131			
4/25/2007	18:30		129.264	125.864	106.315	110.242	101.923	117.123			
4/25/2007	19:00		129.26	125.852	106.305	110.238	101.919	117.11			
4/25/2007	19:30		129.262	125.843	106.294	110.24	101.921	117.09			
4/25/2007	20:00		129.269	125.838	106.287	110.244	101.921	117.082			
4/25/2007	20:30		129.275	125.829	106.324	110.244	101.919	117.12			
4/25/2007	21:00		129.278	125.824	106.306	110.249	101.928	117.112			
4/25/2007	21:30		129.275	125.82	106.337	110.255	101.933	117.103			
4/25/2007	22:00		129.266	125.813	106.32	110.261	101.935	117.095			
4/25/2007	22:30		129.262	125.806	106.313	110.259	101.938	117.103			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/25/2007	23:00		129.244	125.799	106.305	110.251	101.93	117.095			
4/25/2007	23:30		129.235	125.792	106.298	110.242	101.919	117.075			
4/26/2007	0:00		129.226	125.785	106.327	110.229	101.904	117.056			
4/26/2007	0:30		129.216	125.778	106.315	110.221	101.895	117.056			
4/26/2007	1:00		129.205	125.769	106.306	110.209	101.886	117.041			
4/26/2007	1:30		129.187	125.762	106.299	110.202	101.878	117.011			
4/26/2007	2:00		129.185	125.753	106.294	110.189	101.864	117.001			
4/26/2007	2:30		129.176	125.746	106.287	110.169	101.85	116.992			
4/26/2007	3:00		129.169	125.743	106.282	110.166	101.845	116.99			
4/26/2007	3:30		129.171	125.736	106.277	110.158	101.836	116.986			
4/26/2007	4:00		129.164	125.732	106.274	110.15	101.827	116.984			
4/26/2007	4:30		129.164	125.729	106.268	110.154	101.827	117.024			
4/26/2007	5:00		129.169	125.725	106.265	110.149	101.819	117.018			
4/26/2007	5:30		129.176	125.725	106.263	110.148	101.827	117.007			
4/26/2007	6:00		130.934	125.72	106.26	110.15	101.829	117.001			
4/26/2007	6:30		131.233	125.718	106.256	110.158	101.834	116.994			
4/26/2007	7:00		131.381	126.972	106.872	110.474	102.275	117.422			
4/26/2007	7:30		131.469	127.282	107.101	110.792	102.605	117.719			
4/26/2007	8:00		131.524	127.425	107.225	110.954	102.765	117.912			
4/26/2007	8:30		131.562	127.511	107.297	111.051	102.867	117.991			
4/26/2007	9:00		131.585	127.559	107.345	111.11	102.921	118.038			
4/26/2007	9:30		131.601	127.596	107.373	111.15	102.963	118.051			
4/26/2007	10:00		131.612	127.619	107.428	111.181	102.994	118.066			
4/26/2007	10:30		131.619	127.636	107.442	111.198	103.01	118.153			
4/26/2007	11:00		129.82	127.649	107.456	111.211	103.022	118.158			
4/26/2007	11:30		129.595	127.659	107.39	111.215	103.027	118.158			
4/26/2007	12:00		129.471	126.342	106.798	110.821	102.503	117.634			
4/26/2007	12:30		129.393	126.125	106.615	110.583	102.26	117.403			
4/26/2007	13:00		129.339	126.007	106.511	110.453	102.133	117.281			
4/26/2007	13:30		129.296	125.933	106.446	110.371	102.048	117.202			
4/26/2007	14:00		129.266	125.884	106.403	110.318	101.994	117.127			
4/26/2007	14:30		129.237	125.85	106.372	110.278	101.954	117.088			
4/26/2007	15:00		129.212	125.82	106.349	110.242	101.921	117.045			
4/26/2007	15:30		129.196	125.799	106.332	110.219	101.895	117.02			
4/26/2007	16:00		129.185	125.78	106.317	110.19	101.867	116.999			
4/26/2007	16:30		129.173	125.766	106.306	110.173	101.853	117.011			
4/26/2007	17:00		129.167	125.757	106.296	110.164	101.838	116.994			
4/26/2007	17:30		129.164	125.748	106.287	110.15	101.827	116.981			
4/26/2007	18:00		129.162	125.741	106.282	110.147	101.822	116.984			
4/26/2007	18:30		129.16	125.734	106.275	110.145	101.819	116.977			
4/26/2007	19:00		129.162	125.732	106.272	110.143	101.817	116.966			
4/26/2007	19:30		129.167	125.727	106.268	110.139	101.815	116.973			
4/26/2007	20:00		129.169	125.725	106.265	110.139	101.815	116.969			
4/26/2007	20:30		129.173	125.722	106.262	110.147	101.822	116.96			
4/26/2007	21:00		129.178	125.72	106.258	110.15	101.824	116.952			
4/26/2007	21:30		129.178	125.718	106.253	110.154	101.831	116.968			
4/26/2007	22:00		129.178	125.72	106.249	110.158	101.836	116.992			
4/26/2007	22:30		129.169	125.716	106.244	110.16	101.838	116.968			
4/26/2007	23:00		129.162	125.713	106.241	110.16	101.836	116.954			
4/26/2007	23:30		129.16	125.709	106.236	110.154	101.831	116.947			
4/27/2007	0:00		129.16	125.702	106.231	110.147	101.824	116.936			
4/27/2007	0:30		129.155	125.697	106.227	110.145	101.822	116.984			
4/27/2007	1:00		129.146	125.695	106.222	110.147	101.822	116.973			
4/27/2007	1:30		129.139	125.688	106.217	110.143	101.819	116.977			
4/27/2007	2:00		129.137	125.683	106.212	110.133	101.81	117.026			
4/27/2007	2:30		129.13	125.679	106.208	110.124	101.801	117.022			
4/27/2007	3:00		129.133	125.674	106.203	110.124	101.798	116.996			
4/27/2007	3:30		129.133	125.669	106.2	110.116	101.791	116.968			
4/27/2007	4:00		129.121	125.669	106.196	110.116	101.791	116.968			
4/27/2007	4:30		129.121	125.667	106.194	110.118	101.796	116.958			
4/27/2007	5:00		129.117	125.662	106.189	110.107	101.782	116.96			
4/27/2007	5:30		129.114	125.658	106.186	110.109	101.782	116.952			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/27/2007	6:00		130.836	125.655	106.184	110.099	101.772	116.947			
4/27/2007	6:30		131.147	125.653	106.181	110.101	101.777	116.945			
4/27/2007	7:00		131.31	126.75	106.739	110.368	102.154	117.313			
4/27/2007	7:30		131.39	127.036	106.968	110.695	102.494	117.608			
4/27/2007	8:00		131.437	127.182	107.127	110.868	102.666	117.786			
4/27/2007	8:30		129.779	127.263	107.197	110.969	102.765	117.865			
4/27/2007	9:00		129.52	127.312	107.244	111.023	102.822	117.92			
4/27/2007	9:30		129.391	126.255	106.708	110.79	102.477	117.585			
4/27/2007	10:00		129.328	126.002	106.509	110.52	102.197	117.306			
4/27/2007	10:30		129.287	125.882	106.405	110.385	102.06	117.195			
4/27/2007	11:00		129.257	125.815	106.396	110.31	101.989	117.082			
4/27/2007	11:30		129.228	125.776	106.325	110.268	101.944	117.045			
4/27/2007	12:00		129.201	125.743	106.296	110.234	101.911	117.003			
4/27/2007	12:30		129.178	125.722	106.275	110.202	101.878	117.016			
4/27/2007	13:00		129.16	125.699	106.255	110.177	101.855	116.998			
4/27/2007	13:30		129.148	125.685	106.241	110.154	101.831	116.981			
4/27/2007	14:00		129.142	125.674	106.229	110.141	101.817	116.964			
4/27/2007	14:30		129.135	125.662	106.22	110.133	101.81	116.951			
4/27/2007	15:00		129.13	125.653	106.213	110.124	101.801	116.943			
4/27/2007	15:30		129.123	125.648	106.206	110.118	101.796	116.937			
4/27/2007	16:00		129.117	125.642	106.2	110.114	101.789	116.928			
4/27/2007	16:30		129.119	125.635	106.194	110.109	101.784	116.919			
4/27/2007	17:00		129.117	125.63	106.187	110.103	101.779	116.932			
4/27/2007	17:30		129.121	125.625	106.184	110.107	101.784	116.922			
4/27/2007	18:00		129.126	125.621	106.179	110.105	101.784	116.922			
4/27/2007	18:30		129.13	125.618	106.174	110.112	101.791	116.917			
4/27/2007	19:00		129.139	125.623	106.168	110.12	101.796	116.917			
4/27/2007	19:30		129.148	125.628	106.196	110.125	101.801	116.917			
4/27/2007	20:00		129.153	125.642	106.186	110.141	101.812	116.922			
4/27/2007	20:30		129.157	125.644	106.212	110.145	101.819	116.924			
4/27/2007	21:00		129.162	125.644	106.203	110.15	101.824	116.922			
4/27/2007	21:30		129.169	125.651	106.237	110.154	101.829	116.921			
4/27/2007	22:00		129.169	125.662	106.218	110.16	101.834	116.915			
4/27/2007	22:30		129.167	125.66	106.21	110.164	101.841	116.917			
4/27/2007	23:00		129.16	125.658	106.203	110.162	101.838	116.898			
4/27/2007	23:30		129.157	125.655	106.229	110.156	101.831	116.891			
4/28/2007	0:00		129.155	125.651	106.218	110.152	101.827	116.883			
4/28/2007	0:30		129.155	125.648	106.208	110.148	101.824	116.879			
4/28/2007	1:00		129.151	125.644	106.201	110.15	101.824	116.868			
4/28/2007	1:30		129.146	125.644	106.194	110.148	101.822	116.857			
4/28/2007	2:00		129.139	125.637	106.186	110.141	101.817	116.853			
4/28/2007	2:30		129.135	125.63	106.179	110.133	101.81	116.847			
4/28/2007	3:00		129.13	125.625	106.234	110.129	101.805	116.834			
4/28/2007	3:30		129.13	125.618	106.194	110.124	101.801	116.829			
4/28/2007	4:00		129.128	125.621	106.184	110.122	101.798	116.819			
4/28/2007	4:30		129.126	125.618	106.177	110.122	101.796	116.812			
4/28/2007	5:00		129.123	125.618	106.17	110.122	101.796	116.806			
4/28/2007	5:30		129.123	125.614	106.163	110.116	101.791	116.797			
4/28/2007	6:00		129.121	125.614	106.206	110.116	101.791	116.791			
4/28/2007	6:30		130.78	125.611	106.181	110.118	101.791	116.782			
4/28/2007	7:00		131.147	125.614	106.172	110.118	101.794	116.763			
4/28/2007	7:30		131.317	126.784	106.729	110.318	102.102	117.12			
4/28/2007	8:00		131.406	127.138	107.034	110.708	102.518	117.488			
4/28/2007	8:30		131.462	127.305	107.163	110.893	102.704	117.651			
4/28/2007	9:00		131.494	127.397	107.242	110.988	102.8	117.747			
4/28/2007	9:30		129.908	127.455	107.294	111.051	102.864	117.85			
4/28/2007	10:00		129.559	127.492	107.327	111.089	102.904	117.886			
4/28/2007	10:30		129.407	126.37	106.794	110.922	102.626	117.602			
4/28/2007	11:00		129.314	126.042	106.546	110.56	102.237	117.238			
4/28/2007	11:30		129.248	125.896	106.42	110.402	102.077	117.086			
4/28/2007	12:00		129.203	125.808	106.343	110.305	101.978	116.998			
4/28/2007	12:30		129.162	125.764	106.296	110.236	101.911	116.939			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/28/2007	13:00		129.135	125.713	106.258	110.189	101.867	117.02			
4/28/2007	13:30		129.11	125.683	106.231	110.15	101.827	116.99			
4/28/2007	14:00		129.094	125.662	106.212	110.124	101.801	116.983			
4/28/2007	14:30		129.076	125.648	106.196	110.099	101.775	116.949			
4/28/2007	15:00		129.06	125.635	106.184	110.078	101.753	116.937			
4/28/2007	15:30		129.044	125.625	106.177	110.065	101.742	116.932			
4/28/2007	16:00		129.03	125.614	106.168	110.047	101.725	116.924			
4/28/2007	16:30		129.024	125.602	106.162	110.034	101.709	116.917			
4/28/2007	17:00		129.017	125.593	106.156	110.019	101.695	116.911			
4/28/2007	17:30		129.01	125.586	106.151	110.011	101.685	116.904			
4/28/2007	18:00		129.003	125.581	106.148	110.006	101.68	116.915			
4/28/2007	18:30		128.996	125.577	106.146	109.998	101.673	116.896			
4/28/2007	19:00		128.994	125.572	106.144	109.99	101.664	116.894			
4/28/2007	19:30		128.994	125.568	106.143	109.983	101.657	116.891			
4/28/2007	20:00		128.999	125.568	106.143	109.981	101.654	116.889			
4/28/2007	20:30		129.003	125.568	106.141	109.985	101.657	116.889			
4/28/2007	21:00		129.008	125.568	106.141	109.985	101.659	116.887			
4/28/2007	21:30		129.005	125.568	106.141	109.992	101.664	116.887			
4/28/2007	22:00		129.01	125.568	106.141	109.998	101.669	116.885			
4/28/2007	22:30		129.005	125.568	106.141	109.996	101.666	116.883			
4/28/2007	23:00		129.001	125.568	106.139	109.998	101.671	116.881			
4/28/2007	23:30		128.996	125.568	106.139	109.996	101.669	116.879			
4/29/2007	0:00		128.992	125.565	106.137	109.992	101.664	116.877			
4/29/2007	0:30		128.992	125.563	106.136	109.985	101.657	116.875			
4/29/2007	1:00		128.985	125.561	106.134	109.985	101.657	116.894			
4/29/2007	1:30		128.983	125.558	106.132	109.983	101.657	116.891			
4/29/2007	2:00		128.978	125.556	106.131	109.977	101.65	116.866			
4/29/2007	2:30		128.976	125.554	106.129	109.977	101.647	116.86			
4/29/2007	3:00		128.974	125.551	106.127	109.973	101.643	116.86			
4/29/2007	3:30		128.976	125.549	106.127	109.968	101.64	116.866			
4/29/2007	4:00		128.974	125.547	106.125	109.968	101.64	116.862			
4/29/2007	4:30		128.974	125.544	106.124	109.968	101.64	116.862			
4/29/2007	5:00		128.978	125.544	106.124	109.966	101.638	116.859			
4/29/2007	5:30		128.983	125.542	106.122	109.971	101.643	116.855			
4/29/2007	6:00		128.985	125.544	106.122	109.969	101.64	116.851			
4/29/2007	6:30		128.99	125.544	106.12	109.975	101.645	116.853			
4/29/2007	7:00		130.437	125.544	106.12	109.977	101.647	116.853			
4/29/2007	7:30		130.986	125.547	106.119	109.983	101.652	116.849			
4/29/2007	8:00		131.17	126.412	106.556	109.983	101.654	116.849			
4/29/2007	8:30		131.276	126.895	106.877	110.501	102.298	117.415			
4/29/2007	9:00		131.344	127.078	107.037	110.704	102.503	117.553			
4/29/2007	9:30		131.383	127.189	107.137	110.827	102.624	117.629			
4/29/2007	10:00		131.408	127.256	107.197	110.899	102.699	117.771			
4/29/2007	10:30		131.426	127.302	107.24	110.943	102.742	117.811			
4/29/2007	11:00		131.44	127.333	107.27	110.971	102.767	117.837			
4/29/2007	11:30		131.437	127.356	107.292	110.994	102.791	117.856			
4/29/2007	12:00		131.442	127.372	107.309	111.007	102.808	117.875			
4/29/2007	12:30		131.437	127.381	107.32	111.011	102.808	117.91			
4/29/2007	13:00		131.435	127.388	107.332	111.017	102.812	117.916			
4/29/2007	13:30		131.426	127.393	107.337	111.015	102.81	117.92			
4/29/2007	14:00		131.426	127.397	107.342	111.013	102.808	117.922			
4/29/2007	14:30		131.415	127.404	107.347	111.007	102.803	117.957			
4/29/2007	15:00		131.413	127.407	107.352	111.006	102.8	117.961			
4/29/2007	15:30		131.406	127.407	107.358	111.002	102.796	117.972			
4/29/2007	16:00		131.41	127.39	107.346	111	102.793	117.974			
4/29/2007	16:30		131.415	127.395	107.352	111	102.793	117.978			
4/29/2007	17:00		131.415	127.397	107.359	111.005	102.798	117.978			
4/29/2007	17:30		131.417	127.404	107.368	111.005	102.8	117.987			
4/29/2007	18:00		129.931	127.409	107.354	111.011	102.803	118.027			
4/29/2007	18:30		129.511	127.416	107.363	111.015	102.81	118.074			
4/29/2007	19:00		129.337	126.5	106.911	110.941	102.692	117.963			
4/29/2007	19:30		129.241	126.123	106.634	110.51	102.185	117.505			

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
4/29/2007	20:00		129.18	125.956	106.492	110.329	101.999	117.322			
4/29/2007	20:30		129.139	125.861	106.408	110.228	101.897	117.225			
4/29/2007	21:00		129.11	125.801	106.355	110.164	101.834	117.178			
4/29/2007	21:30		129.094	125.76	106.317	110.126	101.794	117.137			
4/29/2007	22:00		129.076	125.729	106.291	110.095	101.763	117.112			
4/29/2007	22:30		129.055	125.709	106.274	110.08	101.749	117.093			
4/29/2007	23:00		129.04	125.695	106.26	110.057	101.728	117.073			
4/29/2007	23:30		129.03	125.683	106.231	110.04	101.706	117.06			
4/30/2007	0:00		129.017	125.669	106.222	110.027	101.695	117.052			
4/30/2007	0:30		129.005	125.66	106.212	110.015	101.685	117.039			
4/30/2007	1:00		128.994	125.651	106.205	110.008	101.676	117.031			
4/30/2007	1:30		128.985	125.644	106.198	109.994	101.664	117.024			
4/30/2007	2:00		128.976	125.637	106.193	109.985	101.654	117.014			
4/30/2007	2:30		128.971	125.635	106.172	109.973	101.643	117.009			
4/30/2007	3:00		128.962	125.628	106.168	109.969	101.638	117.005			
4/30/2007	3:30		128.951	125.623	106.165	109.96	101.628	116.998			
4/30/2007	4:00		128.949	125.621	106.162	109.956	101.626	116.992			
4/30/2007	4:30		128.949	125.618	106.141	109.947	101.614	116.988			
4/30/2007	5:00		128.942	125.614	106.141	109.945	101.612	116.983			
4/30/2007	5:30		128.94	125.611	106.139	109.939	101.607	116.977			
4/30/2007	6:00		130.65	125.611	106.137	109.937	101.605	116.969			
4/30/2007	6:30		130.972	125.609	106.137	109.933	101.603	116.968			
4/30/2007	7:00		131.14	126.831	106.742	110.204	101.992	117.362			
4/30/2007	7:30		131.24	127.136	106.989	110.543	102.345	117.657			
4/30/2007	8:00		129.902	127.291	107.128	110.726	102.527	117.798			
4/30/2007	8:30		129.414	127.39	107.22	110.834	102.638	117.871			
4/30/2007	9:00		129.25	126.474	106.813	110.91	102.713	117.908			
4/30/2007	9:30		129.16	126.046	106.529	110.427	102.095	117.39			
4/30/2007	10:00		129.101	125.894	106.396	110.257	101.921	117.234			
4/30/2007	10:30		129.062	125.806	106.32	110.156	101.824	117.15			
4/30/2007	11:00		129.028	125.753	106.272	110.095	101.761	117.093			
4/30/2007	11:30		128.996	125.718	106.239	110.057	101.723	117.058			
4/30/2007	12:00		128.969	125.695	106.217	110.023	101.69	117.031			
4/30/2007	12:30		128.947	125.679	106.182	109.992	101.659	117.011			
4/30/2007	13:00		128.924	125.658	106.151	109.964	101.631	116.988			
4/30/2007	13:30		128.917	125.653	106.122	109.941	101.612	116.971			
4/30/2007	14:00		128.908	125.644	106.122	109.918	101.586	116.956			
4/30/2007	14:30		128.899	125.642	106.12	109.907	101.574	116.948			
4/30/2007	15:00		128.888	125.635	106.098	109.901	101.567	116.943			
4/30/2007	15:30		128.878	125.628	106.094	109.895	101.56	116.937			
4/30/2007	16:00		128.863	125.625	106.093	109.884	101.548	116.924			
4/30/2007	16:30		128.849	125.625	106.074	109.872	101.541	116.921			
4/30/2007	17:00		128.847	125.623	106.053	109.861	101.527	116.922			
4/30/2007	17:30		128.849	125.623	106.056	109.848	101.518	116.913			
4/30/2007	18:00		128.854	125.621	106.056	109.842	101.508	116.907	112.92		
4/30/2007	18:30		128.86	125.618	106.058	109.85	101.515	116.904	112.935		
4/30/2007	19:00		128.867	125.618	106.06	109.85	101.518	116.906	112.944	86.222	
4/30/2007	19:30		128.869	125.618	106.06	109.857	101.522	116.907	112.955	86.186	
4/30/2007	20:00		128.876	125.618	106.062	109.866	101.529	116.907	112.968	86.171	78.548
4/30/2007	20:30		128.876	125.618	106.063	109.869	101.537	116.911	112.975	86.162	78.548
4/30/2007	21:00		128.883	125.618	106.063	109.874	101.541	116.913	112.981	86.155	78.542
4/30/2007	21:30		128.881	125.621	106.067	109.874	101.544	116.913	112.986	86.149	78.544
4/30/2007	22:00		128.872	125.621	106.067	109.884	101.551	116.926	112.995	86.145	78.544
4/30/2007	22:30		128.876	125.621	106.067	109.882	101.551	116.924	112.995	86.14	78.54
4/30/2007	23:00		128.881	125.621	106.065	109.872	101.539	116.922	112.986	86.132	78.524
4/30/2007	23:30		128.89	125.618	106.065	109.878	101.544	116.922	112.992	86.129	78.534
5/1/2007	0:00		128.91	125.616	106.065	109.882	101.548	116.919	112.995	86.127	78.534
5/1/2007	0:30		128.919	125.616	106.067	109.89	101.551	116.919	113.006	86.125	78.536
5/1/2007	1:00		128.915	125.611	106.069	109.91	101.574	116.922	113.023	86.129	78.561
5/1/2007	1:30		128.901	125.609	106.067	109.922	101.586	116.928	113.036	86.13	78.569
5/1/2007	2:00		128.888	125.609	106.067	109.916	101.584	116.924	113.032	86.125	78.563
5/1/2007	2:30		128.881	125.607	106.062	109.905	101.57	116.917	113.019	86.118	78.553

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/1/2007	3:00		128.869	125.605	106.056	109.893	101.558	116.911	113.008	86.11	78.536
5/1/2007	3:30		128.878	125.6	106.055	109.882	101.546	116.907	112.996	86.103	78.52
5/1/2007	4:00		128.881	125.6	106.051	109.874	101.541	116.904	112.99	86.095	78.524
5/1/2007	4:30		128.874	125.593	106.051	109.88	101.544	116.9	112.995	86.094	78.513
5/1/2007	5:00		128.876	125.593	106.05	109.888	101.551	116.898	113.001	86.09	78.517
5/1/2007	5:30		130.426	125.591	106.046	109.878	101.544	116.894	112.992	86.084	78.513
5/1/2007	6:00		130.888	125.588	106.046	109.882	101.544	116.891	112.994	86.079	78.52
5/1/2007	6:30		131.084	126.662	106.561	109.966	101.678	117.045	113.842	86.081	78.52
5/1/2007	7:00		131.197	127.085	106.865	110.451	102.253	117.476	114.538	86.116	78.569
5/1/2007	7:30		131.279	127.265	107.025	110.665	102.466	117.683	114.746	86.153	78.654
5/1/2007	8:00		131.335	127.374	107.125	110.788	102.591	117.785	114.87	86.182	78.718
5/1/2007	8:30		131.374	127.446	107.194	110.876	102.678	117.856	114.954	86.213	78.768
5/1/2007	9:00		131.403	127.492	107.237	110.947	102.746	117.903	115.021	86.247	78.815
5/1/2007	9:30		131.419	127.522	107.266	110.983	102.789	117.933	115.058	86.272	78.852
5/1/2007	10:00		129.888	127.55	107.287	111.009	102.815	117.954	115.082	86.296	78.888
5/1/2007	10:30		129.498	127.562	107.301	111.036	102.841	117.965	115.107	86.322	78.908
5/1/2007	11:00		129.33	126.463	106.775	110.918	102.628	117.751	114.166	86.343	78.937
5/1/2007	11:30		129.223	126.095	106.499	110.514	102.185	117.347	113.647	86.333	78.902
5/1/2007	12:00		129.157	125.931	106.355	110.339	102.006	117.187	113.466	86.319	78.85
5/1/2007	12:30		129.105	125.831	106.268	110.232	101.897	117.088	113.355	86.304	78.799
5/1/2007	13:00		129.06	125.766	106.208	110.16	101.829	117.024	113.284	86.293	78.759
5/1/2007	13:30		129.03	125.718	106.165	110.11	101.78	116.977	113.231	86.278	78.722
5/1/2007	14:00		129.005	125.683	106.132	110.061	101.73	116.939	113.183	86.263	78.689
5/1/2007	14:30		128.985	125.655	106.11	110.032	101.702	116.915	113.154	86.25	78.666
5/1/2007	15:00		128.96	125.635	106.089	110.008	101.676	116.892	113.127	86.237	78.639
5/1/2007	15:30		128.942	125.616	106.074	109.987	101.655	116.875	113.105	86.223	78.623
5/1/2007	16:00		128.931	125.602	106.06	109.964	101.633	116.862	113.083	86.21	78.604
5/1/2007	16:30		128.917	125.591	106.048	109.945	101.614	116.847	113.063	86.195	78.579
5/1/2007	17:00		128.906	125.579	106.039	109.931	101.605	116.838	113.05	86.184	78.573
5/1/2007	17:30		128.901	125.572	106.032	109.92	101.586	116.828	113.036	86.173	78.557
5/1/2007	18:00		128.897	125.565	106.025	109.91	101.574	116.819	113.025	86.16	78.54
5/1/2007	18:30		128.888	125.561	106.02	109.901	101.567	116.813	113.019	86.151	78.542
5/1/2007	19:00		128.892	125.554	106.015	109.905	101.562	117.043	113.012	86.147	78.536
5/1/2007	19:30		128.897	125.549	106.01	109.89	101.558	116.909	113.005	86.14	78.526
5/1/2007	20:00		128.901	125.542	106.006	109.895	101.563	116.906	113.01	86.134	78.53
5/1/2007	20:30		128.901	125.537	106.001	109.901	101.565	116.902	113.014	86.13	78.532
5/1/2007	21:00		128.906	125.535	106	109.905	101.57	116.9	113.019	86.129	78.528
5/1/2007	21:30		128.906	125.533	105.996	109.905	101.572	116.896	113.019	86.125	78.536
5/1/2007	22:00		128.908	125.528	105.993	109.909	101.574	116.894	113.023	86.123	78.54
5/1/2007	22:30		128.903	125.524	105.988	109.912	101.579	116.891	113.025	86.121	78.54
5/1/2007	23:00		128.903	125.521	105.984	109.912	101.579	116.887	113.025	86.119	78.54
5/1/2007	23:30		128.899	125.519	105.981	109.909	101.574	116.883	113.021	86.116	78.532
5/2/2007	0:00		128.894	125.512	105.977	109.905	101.572	116.877	113.019	86.114	78.528
5/2/2007	0:30		128.894	125.507	105.972	109.905	101.57	116.874	113.016	86.11	78.524
5/2/2007	1:00		128.89	125.505	105.967	109.901	101.567	116.868	113.014	86.105	78.528
5/2/2007	1:30		128.881	125.5	105.963	109.901	101.565	116.862	113.01	86.103	78.52
5/2/2007	2:00		128.876	125.496	105.96	109.895	101.56	116.859	113.005	86.099	78.515
5/2/2007	2:30		128.869	125.491	105.955	109.888	101.551	116.859	112.999	86.092	78.505
5/2/2007	3:00		128.869	125.487	105.951	109.886	101.551	116.851	112.994	86.088	78.505
5/2/2007	3:30		128.865	125.484	105.948	109.878	101.544	116.845	112.988	86.083	78.497
5/2/2007	4:00		128.858	125.48	105.943	109.878	101.539	116.84	112.985	86.079	78.503
5/2/2007	4:30		128.849	125.475	105.941	109.876	101.539	116.838	112.983	86.073	78.497
5/2/2007	5:00		128.849	125.473	105.938	109.867	101.529	116.832	112.974	86.07	78.497
5/2/2007	5:30		128.854	125.468	105.936	109.863	101.525	116.83	112.97	86.064	78.489
5/2/2007	6:00		130.621	125.466	105.93	109.861	101.525	116.825	112.968	86.059	78.493
5/2/2007	6:30		130.922	125.461	105.929	109.865	101.527	116.823	112.972	86.059	78.489
5/2/2007	7:00		131.074	126.597	106.524	110.156	101.933	117.208	114.234	86.07	78.501
5/2/2007	7:30		131.165	126.881	106.754	110.472	102.26	117.48	114.582	86.103	78.569
5/2/2007	8:00		131.229	127.029	106.885	110.64	102.43	117.599	114.75	86.134	78.652
5/2/2007	8:30		131.261	127.122	106.972	110.747	102.536	117.664	114.852	86.164	78.699
5/2/2007	9:00		131.285	127.184	107.032	110.817	102.602	117.709	114.918	86.191	78.743
5/2/2007	9:30		129.654	127.228	107.07	110.859	102.642	117.766	114.958	86.215	78.776

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/2/2007	10:00		129.316	127.254	107.096	110.886	102.668	117.809	114.983	86.236	78.795
5/2/2007	10:30		129.167	126.22	106.57	110.691	102.376	117.523	113.876	86.248	78.811
5/2/2007	11:00		129.074	125.912	106.332	110.339	102.006	117.208	113.464	86.232	78.768
5/2/2007	11:30		129.012	125.769	106.206	110.177	101.841	117.056	113.3	86.217	78.712
5/2/2007	12:00		128.958	125.683	106.129	110.084	101.751	116.988	113.2	86.204	78.67
5/2/2007	12:30		128.924	125.625	106.077	110.017	101.685	116.913	113.136	86.193	78.631
5/2/2007	13:00		128.888	125.584	106.043	109.967	101.633	116.872	113.085	86.18	78.592
5/2/2007	13:30		128.867	125.558	106.019	109.93	101.593	116.844	113.043	86.164	78.561
5/2/2007	14:00		128.847	125.537	106	109.895	101.558	116.821	113.01	86.147	78.534
5/2/2007	14:30		128.835	125.521	105.984	109.872	101.539	116.802	112.988	86.134	78.524
5/2/2007	15:00		128.822	125.51	105.972	109.853	101.52	116.789	112.968	86.119	78.507
5/2/2007	15:30		128.81	125.498	105.963	109.84	101.506	116.774	112.952	86.108	78.495
5/2/2007	16:00		128.804	125.491	105.955	109.83	101.494	116.765	112.941	86.095	78.478
5/2/2007	16:30		128.799	125.484	105.95	109.813	101.478	116.755	112.926	86.083	78.464
5/2/2007	17:00		128.785	125.48	105.944	109.807	101.47	116.746	112.919	86.071	78.458
5/2/2007	17:30		128.779	125.475	105.943	109.804	101.466	116.74	112.915	86.062	78.449
5/2/2007	18:00		128.776	125.473	105.939	109.792	101.454	116.736	112.901	86.049	78.439
5/2/2007	18:30		128.781	125.47	105.936	109.787	101.447	116.731	112.895	86.04	78.429
5/2/2007	19:00		128.785	125.468	105.934	109.785	101.442	116.725	112.89	86.031	78.42
5/2/2007	19:30		128.804	125.466	105.934	109.787	101.447	116.721	112.895	86.025	78.422
5/2/2007	20:00		128.804	125.463	105.932	109.792	101.454	116.718	112.901	86.022	78.431
5/2/2007	20:30		128.797	125.47	105.938	109.83	101.522	116.956	112.923	86.025	78.441
5/2/2007	21:00		128.792	125.463	105.934	109.815	101.478	116.857	112.921	86.024	78.437
5/2/2007	21:30		128.785	125.463	105.932	109.806	101.468	116.849	112.912	86.018	78.426
5/2/2007	22:00		128.783	125.459	105.931	109.8	101.461	116.847	112.906	86.011	78.42
5/2/2007	22:30		128.779	125.459	105.931	109.796	101.456	116.845	112.903	86.005	78.422
5/2/2007	23:00		128.765	125.459	105.929	109.79	101.449	116.844	112.897	86	78.414
5/2/2007	23:30		128.76	125.456	105.927	109.787	101.449	116.842	112.895	85.994	78.41
5/3/2007	0:00		128.751	125.456	105.925	109.781	101.44	116.84	112.884	85.988	78.402
5/3/2007	0:30		128.745	125.456	105.924	109.77	101.431	116.838	112.877	85.981	78.402
5/3/2007	1:00		128.74	125.454	105.922	109.762	101.426	116.836	112.868	85.976	78.393
5/3/2007	1:30		128.731	125.452	105.92	109.758	101.419	116.834	112.864	85.968	78.385
5/3/2007	2:00		128.726	125.452	105.919	109.752	101.412	116.832	112.857	85.963	78.375
5/3/2007	2:30		128.724	125.452	105.917	109.743	101.404	116.83	112.85	85.955	78.367
5/3/2007	3:00		128.724	125.452	105.915	109.741	101.404	116.829	112.846	85.948	78.367
5/3/2007	3:30		128.717	125.45	105.915	109.733	101.39	116.825	112.837	85.942	78.36
5/3/2007	4:00		128.711	125.45	105.915	109.731	101.39	116.825	112.837	85.937	78.354
5/3/2007	4:30		128.706	125.45	105.915	109.73	101.388	116.825	112.833	85.931	78.35
5/3/2007	5:00		128.708	125.45	105.913	109.727	101.383	116.823	112.829	85.922	78.348
5/3/2007	5:30		128.708	125.452	105.913	109.718	101.376	116.821	112.822	85.917	78.34
5/3/2007	6:00		130.539	125.45	105.915	109.718	101.376	116.815	112.822	85.911	78.333
5/3/2007	6:30		130.825	125.45	105.917	109.722	101.379	116.815	112.824	85.907	78.329
5/3/2007	7:00		130.977	126.768	106.592	110.091	101.878	117.276	114.148	85.922	78.35
5/3/2007	7:30		131.07	127.048	106.823	110.396	102.192	117.523	114.476	85.955	78.416
5/3/2007	8:00		131.14	127.198	106.96	110.562	102.357	117.636	114.639	85.987	78.493
5/3/2007	8:30		131.188	127.296	107.049	110.665	102.461	117.702	114.739	86.014	78.559
5/3/2007	9:00		131.222	127.363	107.116	110.741	102.536	117.839	114.814	86.042	78.59
5/3/2007	9:30		131.245	127.416	107.163	110.796	102.591	117.882	114.867	86.068	78.625
5/3/2007	10:00		131.263	127.453	107.197	110.832	102.626	117.914	114.901	86.09	78.658
5/3/2007	10:30		131.279	127.481	107.223	110.859	102.654	117.931	114.927	86.112	78.681
5/3/2007	11:00		131.288	127.499	107.242	110.88	102.673	117.942	114.945	86.13	78.708
5/3/2007	11:30		131.295	127.515	107.258	110.895	102.692	117.97	114.96	86.151	78.73
5/3/2007	12:00		130.092	127.529	107.27	110.907	102.701	117.978	114.972	86.169	78.739
5/3/2007	12:30		129.368	127.538	107.278	110.912	102.709	117.98	114.98	86.186	78.745
5/3/2007	13:00		129.153	126.703	106.849	110.916	102.711	118.002	114.98	86.197	78.747
5/3/2007	13:30		129.03	126.118	106.468	110.398	102.058	117.418	113.523	86.177	78.724
5/3/2007	14:00		128.956	125.924	106.312	110.171	101.827	117.221	113.291	86.151	78.652
5/3/2007	14:30		128.899	125.81	106.212	110.044	101.704	117.11	113.163	86.129	78.594
5/3/2007	15:00		128.854	125.736	106.132	109.964	101.622	117.045	113.081	86.108	78.546
5/3/2007	15:30		128.819	125.688	106.089	109.91	101.563	116.999	113.021	86.088	78.515
5/3/2007	16:00		128.797	125.639	106.036	109.861	101.518	116.956	112.974	86.07	78.486
5/3/2007	16:30		128.774	125.614	106.017	109.827	101.485	116.937	112.939	86.049	78.462

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/3/2007	17:00		128.758	125.595	106	109.806	101.461	116.922	112.915	86.035	78.443
5/3/2007	17:30		128.742	125.579	105.969	109.783	101.44	116.904	112.892	86.016	78.42
5/3/2007	18:00		128.726	125.563	105.962	109.767	101.426	116.891	112.877	86.001	78.385
5/3/2007	18:30		128.722	125.547	105.953	109.752	101.409	116.881	112.861	85.985	78.373
5/3/2007	19:00		128.711	125.533	105.931	109.735	101.393	116.879	112.844	85.97	78.352
5/3/2007	19:30		128.708	125.526	105.927	109.73	101.383	116.872	112.837	85.957	78.34
5/3/2007	20:00		128.704	125.519	105.923	109.722	101.379	116.87	112.83	85.946	78.331
5/3/2007	20:30		128.715	125.51	105.92	109.718	101.374	116.868	112.824	85.935	78.323
5/3/2007	21:00		128.722	125.51	105.919	109.716	101.371	116.868	112.822	85.926	78.319
5/3/2007	21:30		128.726	125.505	105.918	109.724	101.379	116.866	112.828	85.92	78.323
5/3/2007	22:00		128.72	125.505	105.919	109.731	101.386	116.866	112.837	85.917	78.323
5/3/2007	22:30		128.726	125.503	105.92	109.741	101.393	116.868	112.844	85.913	78.321
5/3/2007	23:00		128.72	125.505	105.919	109.733	101.388	116.868	112.837	85.906	78.317
5/3/2007	23:30		128.717	125.503	105.918	109.735	101.39	116.866	112.839	85.902	78.313
5/4/2007	0:00		128.724	125.503	105.917	109.729	101.386	116.864	112.833	85.894	78.319
5/4/2007	0:30		128.724	125.498	105.915	109.73	101.381	116.862	112.83	85.889	78.309
5/4/2007	1:00		128.729	125.496	105.915	109.739	101.393	116.864	112.841	85.887	78.317
5/4/2007	1:30		128.726	125.496	105.913	109.739	101.39	116.864	112.839	85.883	78.321
5/4/2007	2:00		128.722	125.491	105.912	109.741	101.395	116.864	112.841	85.882	78.311
5/4/2007	2:30		128.708	125.491	105.912	109.741	101.395	116.875	112.841	85.876	78.313
5/4/2007	3:00		128.704	125.491	105.908	109.737	101.388	116.874	112.835	85.87	78.298
5/4/2007	3:30		128.699	125.491	105.908	109.728	101.381	116.874	112.828	85.865	78.298
5/4/2007	4:00		128.697	125.487	105.906	109.722	101.376	116.874	112.822	85.859	78.286
5/4/2007	4:30		128.695	125.484	105.903	109.714	101.367	116.874	112.815	85.854	78.278
5/4/2007	5:00		128.704	125.477	105.901	109.714	101.367	116.87	112.813	85.848	78.269
5/4/2007	5:30		128.715	125.48	105.901	109.716	101.369	116.874	112.813	85.845	78.284
5/4/2007	6:00		130.657	125.477	105.901	109.72	101.372	116.875	112.819	85.843	78.282
5/4/2007	6:30		130.875	125.581	106.229	109.731	101.383	116.877	112.83	85.845	78.288
5/4/2007	7:00		130.995	126.766	106.623	110.202	101.98	117.343	114.303	85.874	78.329
5/4/2007	7:30		131.09	126.972	106.803	110.438	102.218	117.584	114.542	85.909	78.412
5/4/2007	8:00		131.136	127.092	106.911	110.575	102.355	117.706	114.677	85.941	78.47
5/4/2007	8:30		131.17	127.168	106.985	110.678	102.454	117.781	114.772	85.974	78.527
5/4/2007	9:00		129.484	127.224	107.037	110.739	102.52	117.839	114.83	86.001	78.575
5/4/2007	9:30		129.189	127.265	107.075	110.777	102.555	117.875	114.863	86.025	78.606
5/4/2007	10:00		129.035	126.181	106.51	110.533	102.197	117.563	113.681	86.038	78.627
5/4/2007	10:30		128.947	125.905	106.289	110.219	101.876	117.289	113.335	86.025	78.592
5/4/2007	11:00		128.894	125.771	106.168	110.057	101.711	117.155	113.167	86.011	78.527
5/4/2007	11:30		128.851	125.688	106.094	109.968	101.619	117.078	113.074	86	78.48
5/4/2007	12:00		128.815	125.632	106.046	109.907	101.563	117.029	113.016	85.99	78.464
5/4/2007	12:30		128.781	125.595	106.012	109.867	101.518	117.009	112.972	85.981	78.426
5/4/2007	13:00		128.76	125.57	105.984	109.829	101.482	116.984	112.932	85.968	78.41
5/4/2007	13:30		128.733	125.549	105.965	109.796	101.452	116.971	112.901	85.957	78.389
5/4/2007	14:00		128.717	125.535	105.95	109.773	101.428	116.96	112.877	85.946	78.362
5/4/2007	14:30		128.699	125.524	105.938	109.749	101.405	116.951	112.855	85.935	78.348
5/4/2007	15:00		128.686	125.512	105.927	109.731	101.383	116.943	112.833	85.922	78.338
5/4/2007	15:30		128.677	125.505	105.903	109.714	101.367	116.939	112.815	85.907	78.321
5/4/2007	16:00		128.679	125.498	105.9	109.701	101.355	116.932	112.802	85.898	78.309
5/4/2007	16:30		128.665	125.489	105.894	109.691	101.346	116.932	112.793	85.887	78.288
5/4/2007	17:00		128.656	125.484	105.889	109.691	101.346	116.936	112.793	85.882	78.286
5/4/2007	17:30		128.645	125.48	105.865	109.686	101.341	116.939	112.786	85.872	78.28
5/4/2007	18:00		128.636	125.466	105.869	109.669	101.324	116.937	112.768	85.858	78.263
5/4/2007	18:30		128.631	125.459	105.841	109.661	101.315	116.941	112.762	85.85	78.253
5/4/2007	19:00		128.627	125.447	105.848	109.651	101.308	116.943	112.753	85.841	78.251
5/4/2007	19:30		128.627	125.445	105.848	109.65	101.303	116.949	112.749	85.832	78.242
5/4/2007	20:00		128.64	125.438	105.848	109.646	101.299	116.951	112.744	85.824	78.234
5/4/2007	20:30		128.649	125.436	105.846	109.642	101.296	116.952	112.742	85.817	78.236
5/4/2007	21:00		128.643	125.433	105.846	109.661	101.313	116.954	112.757	85.815	78.238
5/4/2007	21:30		128.622	125.431	105.848	109.669	101.322	116.958	112.764	85.813	78.24
5/4/2007	22:00		128.624	125.436	105.848	109.67	101.322	116.962	112.766	85.81	78.245
5/4/2007	22:30		128.638	125.431	105.827	109.638	101.291	116.964	112.735	85.797	78.22
5/4/2007	23:00		128.627	125.422	105.832	109.644	101.296	116.964	112.742	85.795	78.222
5/4/2007	23:30		128.643	125.422	105.832	109.653	101.305	116.977	112.751	85.793	78.222

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/5/2007	0:00		128.613	125.424	105.831	109.65	101.301	116.983	112.744	85.788	78.224
5/5/2007	0:30		128.604	125.422	105.832	109.667	101.317	116.984	112.757	85.789	78.226
5/5/2007	1:00		128.611	125.424	105.801	109.634	101.287	116.984	112.729	85.776	78.207
5/5/2007	1:30		128.595	125.413	105.813	109.617	101.27	116.99	112.718	85.769	78.187
5/5/2007	2:00		128.59	125.408	105.813	109.627	101.277	116.992	112.722	85.769	78.193
5/5/2007	2:30		128.586	125.408	105.813	109.619	101.272	116.996	112.713	85.76	78.185
5/5/2007	3:00		128.602	125.389	105.796	109.611	101.263	116.999	112.711	85.756	78.176
5/5/2007	3:30		128.599	125.378	105.784	109.621	101.265	116.992	112.709	85.751	78.174
5/5/2007	4:00		128.586	125.378	105.784	109.587	101.242	117.001	112.706	85.745	78.164
5/5/2007	4:30		128.586	125.382	105.786	109.621	101.272	117.003	112.711	85.741	78.187
5/5/2007	5:00		128.577	125.382	105.784	109.617	101.268	117.009	112.711	85.738	78.182
5/5/2007	5:30		128.556	125.38	105.786	109.604	101.256	117.009	112.7	85.73	78.187
5/5/2007	6:00		128.554	125.382	105.788	109.598	101.246	117.013	112.695	85.725	78.182
5/5/2007	6:30		128.561	125.378	105.763	109.581	101.235	117.022	112.673	85.714	78.182
5/5/2007	7:00		130.401	125.371	105.77	109.577	101.228	117.024	112.671	85.708	78.174
5/5/2007	7:30		130.687	125.373	105.774	109.583	101.232	117.028	112.675	85.705	78.164
5/5/2007	8:00		130.841	126.71	106.466	109.962	101.744	117.48	114.013	85.721	78.18
5/5/2007	8:30		130.947	126.981	106.692	110.265	102.053	117.723	114.336	85.76	78.238
5/5/2007	9:00		131.015	127.129	106.827	110.434	102.225	117.88	114.504	85.791	78.311
5/5/2007	9:30		131.068	127.228	106.92	110.552	102.341	118.049	114.617	85.823	78.377
5/5/2007	10:00		131.113	127.298	106.984	110.626	102.411	118.111	114.69	85.856	78.422
5/5/2007	10:30		131.145	127.344	107.034	110.689	102.473	118.154	114.748	85.882	78.47
5/5/2007	11:00		131.17	127.388	107.073	110.733	102.522	118.194	114.801	85.909	78.509
5/5/2007	11:30		131.179	127.42	107.104	110.767	102.555	118.222	114.828	85.935	78.532
5/5/2007	12:00		131.202	127.446	107.128	110.794	102.579	118.241	114.856	85.959	78.567
5/5/2007	12:30		131.197	127.464	107.146	110.809	102.593	118.256	114.87	85.979	78.577
5/5/2007	13:00		129.455	127.478	107.161	110.819	102.605	118.269	114.879	86	78.592
5/5/2007	13:30		129.144	127.492	107.173	110.823	102.609	118.282	114.881	86.014	78.598
5/5/2007	14:00		128.983	126.231	106.524	110.505	102.169	117.899	113.647	86.018	78.617
5/5/2007	14:30		128.899	125.938	106.286	110.177	101.829	117.612	113.289	85.996	78.557
5/5/2007	15:00		128.833	125.785	106.155	110.005	101.657	117.469	113.118	85.979	78.486
5/5/2007	15:30		128.779	125.69	106.075	109.924	101.572	117.384	113.025	85.961	78.445
5/5/2007	16:00		128.754	125.628	106.02	109.844	101.497	117.328	112.952	85.944	78.398
5/5/2007	16:30		128.738	125.584	105.982	109.796	101.447	117.292	112.903	85.926	78.354
5/5/2007	17:00		128.726	125.554	105.953	109.775	101.431	117.266	112.877	85.917	78.333
5/5/2007	17:30		128.704	125.526	105.932	109.76	101.409	117.244	112.857	85.902	78.325
5/5/2007	18:00		128.702	125.51	105.917	109.743	101.395	117.225	112.846	85.891	78.302
5/5/2007	18:30		128.704	125.493	105.901	109.724	101.379	117.212	112.824	85.882	78.286
5/5/2007	19:00		128.708	125.48	105.893	109.708	101.362	117.197	112.813	85.87	78.28
5/5/2007	19:30		128.72	125.47	105.884	109.724	101.381	117.187	112.824	85.867	78.288
5/5/2007	20:00		128.733	125.461	105.879	109.729	101.381	117.18	112.819	85.859	78.284
5/5/2007	20:30		128.726	125.45	105.872	109.735	101.388	117.259	112.833	85.861	78.292
5/5/2007	21:00		128.715	125.443	105.865	109.758	101.407	117.245	112.85	85.865	78.302
5/5/2007	21:30		128.738	125.433	105.858	109.75	101.402	117.244	112.844	85.859	78.294
5/5/2007	22:00		128.72	125.431	105.85	109.749	101.398	117.236	112.841	85.858	78.29
5/5/2007	22:30		128.674	125.406	105.834	109.741	101.395	117.232	112.839	85.85	78.29
5/5/2007	23:00		128.633	125.493	105.981	109.758	101.407	117.227	112.846	86.075	78.269
5/5/2007	23:30		128.613	125.415	105.981	109.72	101.374	117.219	112.806	85.8	78.3
5/6/2007	0:00		128.686	125.399	105.974	109.648	101.298	117.204	112.746	85.955	78.321
5/6/2007	0:30		128.665	125.396	105.963	109.646	101.296	117.197	112.733	85.769	78.34
5/6/2007	1:00		128.661	125.403	105.962	109.731	101.362	117.176	112.793	85.931	78.296
5/6/2007	1:30		128.692	125.371	105.953	109.733	101.367	117.189	112.797	86.328	78.253
5/6/2007	2:00		128.699	125.373	105.95	109.701	101.343	117.178	112.784	86.243	78.247
5/6/2007	2:30		128.729	125.35	105.938	109.733	101.381	117.178	112.817	86.169	78.23
5/6/2007	3:00		128.702	125.339	105.927	109.724	101.371	117.17	112.811	86.173	78.23
5/6/2007	3:30		128.695	125.332	105.953	109.76	101.404	117.189	112.846	86.204	78.212
5/6/2007	4:00		128.679	125.322	105.941	109.737	101.383	117.176	112.822	86.171	78.209
5/6/2007	4:30		128.692	125.315	105.932	109.726	101.371	117.168	112.815	86.121	78.205
5/6/2007	5:00		128.708	125.301	105.92	109.693	101.338	117.148	112.788	86.029	78.207
5/6/2007	5:30		128.738	125.29	105.906	109.718	101.367	117.157	112.806	85.992	78.187
5/6/2007	6:00		128.729	125.278	105.893	109.733	101.379	117.153	112.822	85.97	78.18
5/6/2007	6:30		128.706	125.274	105.922	109.771	101.416	117.165	112.857	85.981	78.16

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/6/2007	7:00		128.674	125.267	105.903	109.756	101.402	117.163	112.844	86.088	78.16
5/6/2007	7:30		128.629	125.258	105.894	109.743	101.393	117.155	112.83	86.158	78.16
5/6/2007	8:00		130.085	125.244	105.886	109.705	101.353	117.138	112.795	86.123	78.164
5/6/2007	8:30		130.65	125.232	105.872	109.655	101.308	117.123	112.746	86.038	78.172
5/6/2007	9:00		130.857	126.081	106.291	109.678	101.324	117.116	113.222	85.972	78.168
5/6/2007	9:30		130.986	126.567	106.603	110.202	101.977	117.717	114.303	85.972	78.211
5/6/2007	10:00		131.088	126.754	106.76	110.426	102.194	117.877	114.529	85.963	78.263
5/6/2007	10:30		131.133	126.868	106.86	110.564	102.336	117.982	114.662	85.963	78.327
5/6/2007	11:00		131.186	126.967	106.925	110.691	102.463	118.189	114.781	85.974	78.36
5/6/2007	11:30		130.128	127.009	106.961	110.735	102.508	118.22	114.825	85.97	78.424
5/6/2007	12:00		129.316	127.048	106.987	110.79	102.565	118.248	114.876	85.966	78.433
5/6/2007	12:30		129.076	126.416	106.625	110.823	102.595	118.277	114.91	85.972	78.466
5/6/2007	13:00		128.978	125.829	106.472	110.384	102.036	117.801	113.481	86.355	78.445
5/6/2007	13:30		128.883	125.63	106.291	110.112	101.758	117.597	113.216	86.28	78.422
5/6/2007	14:00		128.833	125.519	106.251	110.004	101.645	117.492	113.109	86.226	78.375
5/6/2007	14:30		128.731	125.447	106.156	109.928	101.57	117.431	113.016	86.258	78.348
5/6/2007	15:00		128.672	125.394	106.101	109.857	101.499	117.384	112.957	86.219	78.319
5/6/2007	15:30		128.611	125.278	106.063	109.777	101.421	117.345	112.868	86.164	78.315
5/6/2007	16:00		128.622	125.258	106.029	109.709	101.353	117.311	112.797	86.154	78.302
5/6/2007	16:30		128.658	125.158	105.994	109.65	101.294	117.272	112.742	86.088	78.29
5/6/2007	17:00		128.64	125.156	105.98	109.648	101.294	117.255	112.74	86.055	78.276
5/6/2007	17:30		128.624	125.156	105.963	109.682	101.327	117.253	112.775	86.035	78.247
5/6/2007	18:00		128.604	125.147	105.943	109.667	101.313	117.255	112.757	86.012	78.255
5/6/2007	18:30		128.597	125.142	105.903	109.657	101.303	117.245	112.749	85.985	78.255
5/6/2007	19:00		128.652	125.133	105.848	109.631	101.277	117.232	112.724	85.948	78.255
5/6/2007	19:30		128.661	125.119	105.822	109.631	101.275	117.23	112.722	85.909	78.255
5/6/2007	20:00		128.647	125.145	105.827	109.686	101.324	117.234	112.775	85.887	78.22
5/6/2007	20:30		128.613	125.304	105.917	109.71	101.343	117.242	112.786	86.047	78.183
5/6/2007	21:00		128.584	125.334	105.908	109.693	101.329	117.232	112.773	86.04	78.182
5/6/2007	21:30		128.55	125.17	105.889	109.661	101.294	117.229	112.737	86.011	78.182
5/6/2007	22:00		128.552	125.16	105.881	109.621	101.261	117.21	112.709	85.972	78.185
5/6/2007	22:30		128.556	125.142	105.867	109.59	101.232	117.2	112.673	85.965	78.191
5/6/2007	23:00		128.57	125.135	105.858	109.594	101.235	117.183	112.68	85.92	78.185
5/6/2007	23:30		128.588	125.128	105.85	109.602	101.242	117.187	112.682	85.898	78.178
5/7/2007	0:00		128.561	125.128	105.842	109.604	101.244	117.187	112.689	85.878	78.174
5/7/2007	0:30		128.536	125.128	105.851	109.632	101.27	117.189	112.72	85.876	78.154
5/7/2007	1:00		128.506	125.116	105.839	109.6	101.242	117.182	112.68	85.92	78.158
5/7/2007	1:30		128.534	125.103	105.827	109.585	101.228	117.176	112.664	85.876	78.154
5/7/2007	2:00		128.536	125.089	105.817	109.543	101.183	117.163	112.629	85.878	78.162
5/7/2007	2:30		128.506	125.089	105.817	109.573	101.213	117.163	112.667	85.865	78.141
5/7/2007	3:00		128.457	125.084	105.826	109.577	101.218	117.163	112.689	85.848	78.139
5/7/2007	3:30		128.459	125.075	105.798	109.554	101.192	117.155	112.669	85.813	78.139
5/7/2007	4:00		128.445	125.054	105.788	109.491	101.133	117.138	112.594	85.775	78.149
5/7/2007	4:30		128.409	125.008	105.779	109.501	101.143	117.131	112.582	85.74	78.145
5/7/2007	5:00		128.434	124.989	105.769	109.486	101.126	117.123	112.571	85.714	78.141
5/7/2007	5:30		128.47	124.957	105.749	109.448	101.086	117.114	112.534	85.682	78.145
5/7/2007	6:00		130.233	124.955	105.741	109.472	101.107	117.112	112.554	85.655	78.135
5/7/2007	6:30		130.566	124.978	105.737	109.509	101.145	117.127	112.589	85.64	78.118
5/7/2007	7:00		130.752	126.255	106.27	109.811	101.574	117.486	113.82	85.636	78.123
5/7/2007	7:30		130.877	126.581	106.47	110.15	101.93	117.775	114.214	85.649	78.176
5/7/2007	8:00		130.934	126.768	106.603	110.358	102.133	117.899	114.42	85.662	78.242
5/7/2007	8:30		130.975	126.918	106.684	110.491	102.272	117.98	114.551	85.671	78.29
5/7/2007	9:00		130.997	126.983	106.739	110.562	102.341	118.017	114.617	85.679	78.354
5/7/2007	9:30		129.414	127.025	106.782	110.604	102.385	118.108	114.662	85.686	78.391
5/7/2007	10:00		129.035	127.055	106.822	110.63	102.409	118.126	114.686	85.692	78.451
5/7/2007	10:30		128.888	125.935	106.28	110.489	102.166	117.908	113.692	85.684	78.482
5/7/2007	11:00		128.797	125.568	106.003	110.086	101.725	117.538	113.187	85.646	78.455
5/7/2007	11:30		128.724	125.408	105.862	109.935	101.572	117.396	113.03	85.596	78.4
5/7/2007	12:00		128.672	125.313	105.777	109.84	101.475	117.315	112.932	85.561	78.356
5/7/2007	12:30		128.629	125.251	105.719	109.766	101.404	117.262	112.855	85.533	78.331
5/7/2007	13:00		128.593	125.202	105.675	109.716	101.353	117.225	112.802	85.513	78.317
5/7/2007	13:30		128.579	125.167	105.643	109.669	101.31	117.189	112.76	85.487	78.294

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/7/2007	14:00		128.572	125.137	105.617	109.632	101.272	117.167	112.718	85.457	78.263
5/7/2007	14:30		128.563	125.112	105.595	109.617	101.258	117.148	112.704	85.435	78.24
5/7/2007	15:00		128.54	125.096	105.576	109.617	101.251	117.138	112.7	85.411	78.193
5/7/2007	15:30		128.529	125.082	105.562	109.606	101.242	117.131	112.691	85.395	78.172
5/7/2007	16:00		128.52	125.068	105.55	109.581	101.218	117.116	112.667	85.393	78.162
5/7/2007	16:30		128.513	125.059	105.539	109.571	101.211	117.112	112.653	85.43	78.133
5/7/2007	17:00		128.509	125.049	105.529	109.57	101.206	117.108	112.651	85.424	78.108
5/7/2007	17:30		128.493	125.038	105.521	109.558	101.197	117.103	112.64	85.415	78.098
5/7/2007	18:00		128.481	125.029	105.51	109.56	101.195	117.09	112.638	85.404	78.087
5/7/2007	18:30		128.475	125.022	105.502	109.541	101.18	117.091	112.622	85.393	78.075
5/7/2007	19:00		128.468	125.012	105.496	109.531	101.166	117.08	112.609	85.38	78.071
5/7/2007	19:30		128.463	125.005	105.488	109.522	101.159	117.073	112.602	85.367	78.046
5/7/2007	20:00		128.466	124.998	105.479	109.518	101.152	117.069	112.594	85.356	78.034
5/7/2007	20:30		128.468	124.992	105.472	109.511	101.147	117.067	112.589	85.345	78.032
5/7/2007	21:00		128.475	124.989	105.467	109.511	101.15	117.06	112.587	85.336	78.021
5/7/2007	21:30		128.466	124.982	105.469	109.52	101.155	117.101	112.596	85.33	78.021
5/7/2007	22:00		128.466	124.978	105.462	109.524	101.159	117.097	112.6	85.325	78.027
5/7/2007	22:30		128.457	124.971	105.455	109.516	101.152	117.095	112.594	85.314	78.013
5/7/2007	23:00		128.45	124.964	105.46	109.52	101.152	117.091	112.594	85.306	78.021
5/7/2007	23:30		128.457	124.957	105.453	109.507	101.143	117.086	112.582	85.293	78.007
5/8/2007	0:00		128.461	124.952	105.448	109.501	101.138	117.084	112.578	85.288	78.011
5/8/2007	0:30		128.459	124.948	105.441	109.509	101.145	117.084	112.585	85.279	78.011
5/8/2007	1:00		128.443	124.948	105.436	109.514	101.15	117.084	112.587	85.275	78.013
5/8/2007	1:30		128.427	124.948	105.431	109.512	101.145	117.084	112.587	85.264	78.003
5/8/2007	2:00		128.425	124.941	105.422	109.497	101.136	117.078	112.574	85.251	77.996
5/8/2007	2:30		128.418	124.931	105.417	109.48	101.119	117.063	112.558	85.238	77.984
5/8/2007	3:00		128.418	124.929	105.412	109.478	101.117	117.058	112.554	85.227	77.972
5/8/2007	3:30		128.413	124.922	105.403	109.469	101.105	117.052	112.545	85.214	77.957
5/8/2007	4:00		128.407	124.913	105.395	109.471	101.105	117.048	112.547	85.207	77.963
5/8/2007	4:30		128.402	124.906	105.391	109.467	101.103	117.052	112.543	85.196	77.957
5/8/2007	5:00		128.402	124.901	105.386	109.457	101.096	117.048	112.534	85.183	77.961
5/8/2007	5:30		128.4	124.897	105.381	109.455	101.089	117.048	112.529	85.172	77.982
5/8/2007	6:00		130.217	124.892	105.377	109.451	101.086	117.046	112.527	85.164	77.986
5/8/2007	6:30		130.525	124.892	105.377	109.453	101.086	117.052	112.527	85.153	77.982
5/8/2007	7:00		130.687	126.072	106.01	109.777	101.529	117.416	113.838	85.159	77.984
5/8/2007	7:30		130.777	126.363	106.236	110.091	101.855	117.685	114.192	85.186	78.063
5/8/2007	8:00		130.839	126.523	106.365	110.27	102.034	117.86	114.365	85.214	78.16
5/8/2007	8:30		130.882	126.618	106.448	110.377	102.14	117.929	114.469	85.236	78.224
5/8/2007	9:00		130.907	126.682	106.505	110.448	102.211	117.98	114.535	85.257	78.269
5/8/2007	9:30		130.934	126.724	106.544	110.491	102.256	118.016	114.577	85.273	78.304
5/8/2007	10:00		130.945	126.754	106.572	110.527	102.291	118.038	114.611	85.288	78.331
5/8/2007	10:30		130.956	126.782	106.596	110.556	102.319	118.064	114.642	85.31	78.352
5/8/2007	11:00		130.961	126.8	106.613	110.573	102.334	118.083	114.653	85.319	78.373
5/8/2007	11:30		130.963	126.807	106.623	110.587	102.345	118.087	114.664	85.33	78.385
5/8/2007	12:00		130.959	126.817	106.634	110.594	102.355	118.098	114.67	85.343	78.393
5/8/2007	12:30		129.103	126.824	106.639	110.602	102.36	118.102	114.675	85.349	78.389
5/8/2007	13:00		128.842	126.828	106.558	110.598	102.357	118.096	114.67	85.352	78.398
5/8/2007	13:30		128.695	125.602	105.955	110.179	101.815	117.657	113.289	85.328	78.375
5/8/2007	14:00		128.602	125.359	105.755	109.907	101.539	117.445	112.999	85.292	78.311
5/8/2007	14:30		128.529	125.225	105.641	109.752	101.381	117.328	112.839	85.258	78.23
5/8/2007	15:00		128.475	125.142	105.569	109.657	101.289	117.253	112.74	85.225	78.166
5/8/2007	15:30		128.434	125.082	105.517	109.585	101.216	117.2	112.667	85.194	78.11
5/8/2007	16:00		128.409	125.038	105.479	109.53	101.162	117.161	112.613	85.162	78.075
5/8/2007	16:30		128.388	125.003	105.452	109.486	101.119	117.125	112.569	85.129	78.038
5/8/2007	17:00		128.361	124.978	105.431	109.467	101.098	117.108	112.545	85.107	78.009
5/8/2007	17:30		128.341	124.959	105.414	109.444	101.077	117.099	112.523	85.081	77.982
5/8/2007	18:00		128.325	124.943	105.402	109.421	101.053	117.086	112.498	85.056	77.955
5/8/2007	18:30		128.311	124.927	105.39	109.398	101.032	117.067	112.476	85.028	77.932
5/8/2007	19:00		128.302	124.913	105.379	109.379	101.013	117.054	112.456	85.002	77.912
5/8/2007	19:30		128.295	124.901	105.37	109.37	101.001	117.048	112.443	84.978	77.895
5/8/2007	20:00		128.289	124.892	105.363	109.36	100.989	117.048	112.434	84.956	77.881
5/8/2007	20:30		128.28	124.887	105.358	109.352	100.982	117.045	112.425	84.938	77.87

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/8/2007	21:00		128.275	124.881	105.353	109.349	100.978	117.039	112.423	84.917	77.856
5/8/2007	21:30		128.28	124.823	105.348	109.339	100.968	117.031	112.412	84.897	77.845
5/8/2007	22:00		128.284	124.82	105.345	109.33	100.959	117.041	112.403	84.877	77.835
5/8/2007	22:30		128.273	124.818	105.341	109.343	100.968	117.05	112.412	84.862	77.835
5/8/2007	23:00		128.275	124.818	105.34	109.347	100.975	117.035	112.416	84.849	77.837
5/8/2007	23:30		128.268	124.816	105.336	109.335	100.964	117.029	112.408	84.832	77.823
5/9/2007	0:00		128.264	124.813	105.334	109.339	100.966	117.024	112.408	84.814	77.821
5/9/2007	0:30		128.264	124.811	105.331	109.335	100.959	117.046	112.401	84.799	77.812
5/9/2007	1:00		128.25	124.806	105.327	109.33	100.956	117.033	112.396	84.783	77.804
5/9/2007	1:30		128.234	124.804	105.326	109.33	100.956	117.024	112.399	84.768	77.798
5/9/2007	2:00		128.227	124.8	105.324	109.318	100.942	117.022	112.383	84.749	77.792
5/9/2007	2:30		128.218	124.795	105.321	109.303	100.931	117.018	112.372	84.729	77.775
5/9/2007	3:00		128.225	124.79	105.317	109.293	100.919	117.011	112.361	84.714	77.763
5/9/2007	3:30		128.225	124.788	105.314	109.288	100.914	117.001	112.352	84.698	77.752
5/9/2007	4:00		128.223	124.783	105.314	109.29	100.916	117.003	112.357	84.683	77.742
5/9/2007	4:30		128.218	124.783	105.31	109.297	100.919	117.003	112.359	84.67	77.74
5/9/2007	5:00		128.216	124.781	105.31	109.295	100.919	117.009	112.357	84.657	77.728
5/9/2007	5:30		128.218	124.779	105.307	109.289	100.914	117.011	112.352	84.643	77.721
5/9/2007	6:00		130.065	124.776	105.305	109.289	100.914	117.014	112.354	84.63	77.723
5/9/2007	6:30		130.333	124.774	105.305	109.288	100.909	117.005	112.352	84.617	77.713
5/9/2007	7:00		130.482	125.982	105.962	109.648	101.395	117.467	113.705	84.622	77.726
5/9/2007	7:30		130.569	126.236	106.172	109.935	101.687	117.771	114.015	84.641	77.804
5/9/2007	8:00		130.632	126.377	106.296	110.091	101.848	117.893	114.174	84.661	77.879
5/9/2007	8:30		130.675	126.46	106.379	110.19	101.942	117.961	114.267	84.678	77.932
5/9/2007	9:00		130.702	126.525	106.434	110.265	102.015	118.042	114.338	84.694	77.986
5/9/2007	9:30		128.869	126.569	106.477	110.312	102.065	118.074	114.385	84.709	78.019
5/9/2007	10:00		128.627	126.604	106.482	110.343	102.093	118.108	114.414	84.722	78.042
5/9/2007	10:30		128.497	125.396	105.843	109.964	101.593	117.704	113.061	84.713	78.034
5/9/2007	11:00		128.423	125.167	105.655	109.709	101.329	117.488	112.784	84.689	77.974
5/9/2007	11:30		128.368	125.045	105.552	109.577	101.195	117.409	112.647	84.667	77.922
5/9/2007	12:00		128.32	124.971	105.486	109.495	101.117	117.332	112.567	84.643	77.87
5/9/2007	12:30		128.286	124.922	105.445	109.444	101.065	117.281	112.512	84.62	77.833
5/9/2007	13:00		128.259	124.887	105.412	109.396	101.018	117.251	112.463	84.596	77.794
5/9/2007	13:30		128.239	124.862	105.388	109.358	100.98	117.219	112.427	84.576	77.759
5/9/2007	14:00		128.216	124.839	105.369	109.331	100.954	117.206	112.399	84.556	77.738
5/9/2007	14:30		128.198	124.823	105.355	109.314	100.938	117.197	112.381	84.536	77.715
5/9/2007	15:00		128.18	124.806	105.343	109.291	100.912	117.185	112.357	84.517	77.684
5/9/2007	15:30		128.162	124.769	105.333	109.272	100.895	117.176	112.337	84.497	77.67
5/9/2007	16:00		128.146	124.76	105.326	109.255	100.879	117.168	112.319	84.477	77.659
5/9/2007	16:30		128.13	124.751	105.317	109.238	100.857	117.161	112.299	84.456	77.63
5/9/2007	17:00		128.123	124.723	105.312	109.223	100.843	117.152	112.286	84.44	77.612
5/9/2007	17:30		128.123	124.714	105.305	109.206	100.827	117.142	112.27	84.418	77.583
5/9/2007	18:00		128.112	124.709	105.3	109.2	100.82	117.142	112.261	84.401	77.589
5/9/2007	18:30		128.105	124.707	105.298	109.2	100.82	117.138	112.261	84.388	77.585
5/9/2007	19:00		128.107	124.652	105.295	109.191	100.81	117.14	112.253	84.372	77.562
5/9/2007	19:30		128.109	124.642	105.291	109.185	100.806	117.135	112.246	84.355	77.56
5/9/2007	20:00		128.109	124.645	105.29	109.185	100.803	117.133	112.244	84.342	77.552
5/9/2007	20:30		128.112	124.647	105.288	109.191	100.808	117.129	112.248	84.331	77.552
5/9/2007	21:00		128.128	124.647	105.286	109.19	100.808	117.133	112.248	84.318	77.554
5/9/2007	21:30		128.134	124.652	105.286	109.192	100.81	117.131	112.25	84.305	77.548
5/9/2007	22:00		128.13	124.668	105.286	109.209	100.827	117.15	112.266	84.3	77.558
5/9/2007	22:30		128.123	124.675	105.286	109.223	100.841	117.127	112.275	84.296	77.56
5/9/2007	23:00		128.112	124.67	105.284	109.213	100.834	117.137	112.27	84.283	77.554
5/9/2007	23:30		128.112	124.661	105.281	109.208	100.824	117.12	112.261	84.272	77.541
5/10/2007	0:00		128.114	124.649	105.279	109.198	100.817	117.114	112.253	84.259	77.527
5/10/2007	0:30		128.109	124.652	105.278	109.198	100.813	117.112	112.25	84.248	77.517
5/10/2007	1:00		128.1	124.654	105.276	109.2	100.817	117.11	112.253	84.239	77.519
5/10/2007	1:30		128.096	124.647	105.274	109.196	100.81	117.11	112.248	84.23	77.513
5/10/2007	2:00		128.089	124.638	105.27	109.191	100.803	117.11	112.241	84.219	77.504
5/10/2007	2:30		128.082	124.636	105.269	109.181	100.796	117.125	112.235	84.207	77.5
5/10/2007	3:00		128.08	124.626	105.267	109.177	100.791	117.153	112.228	84.198	77.502
5/10/2007	3:30		128.085	124.619	105.265	109.17	100.787	117.14	112.224	84.187	77.494

TABLE S3.2 (Cont.)

Date	Time	Depth below Top of Casing (ft)									
		MW1D	MW2D	MW3D	MW4D	MW7	MW9	Oentrich	MW14D	MW15D	MW16D
5/10/2007	4:00		128.082	124.619	105.263	109.17	100.787	117.14	112.224	84.178	77.492
5/10/2007	4:30		128.087	124.621	105.262	109.172	100.789	117.133	112.224	84.171	77.49
5/10/2007	5:00		128.089	124.624	105.26	109.173	100.791	117.127	112.226	84.165	77.496
5/10/2007	5:30		128.103	124.626	105.259	109.177	100.791	117.118	112.226	84.156	77.494
5/10/2007	6:00		129.967	124.628	105.259	109.179	100.794	117.116	112.228	84.15	77.498
5/10/2007	6:30		130.255	124.64	105.259	109.192	100.806	117.118	112.241	84.15	77.502
5/10/2007	7:00		130.412	126.002	105.965	109.583	101.334	117.567	113.597	84.167	77.529
5/10/2007	7:30		130.51	126.28	106.187	109.89	101.647	117.809	113.929	84.204	77.61
5/10/2007	8:00		130.575	126.435	106.318	110.055	101.815	117.927	114.097	84.235	77.709
5/10/2007	8:30		130.628	126.534	106.403	110.164	101.923	118.001	114.201	84.265	77.771
5/10/2007	9:00		130.662	126.599	106.461	110.236	101.992	118.119	114.274	84.292	77.821
5/10/2007	9:30		130.691	126.652	106.506	110.293	102.051	118.156	114.329	84.318	77.873
5/10/2007	10:00		130.707	126.689	106.537	110.333	102.088	118.185	114.367	84.342	77.907
5/10/2007	10:30		130.725	126.72	106.563	110.366	102.121	118.201	114.396	84.362	77.936
5/10/2007	11:00		129.355	126.738	106.582	110.387	102.14	118.224	114.416	84.372	77.955
5/10/2007	11:30		128.758	126.754	106.598	110.406	102.161	118.228	114.433	84.384	77.972
5/10/2007	12:00		128.547	125.808	106.122	110.415	102.171	118.233	114.019	84.399	77.988
5/10/2007	12:30		128.429	125.29	105.782	109.863	101.478	117.692	112.939	84.375	77.947
5/10/2007	13:00		128.341	125.093	105.618	109.644	101.258	117.514	112.711	84.348	77.862
5/10/2007	13:30		128.28		105.521	109.52	101.131	117.422	112.585	84.324	77.798
5/10/2007	14:00		128.216	124.97	105.453	109.432	101.046	117.354	112.494	84.3	77.736
5/10/2007	14:30	130.63	128.18	124.908	105.405	109.369	100.985	117.315	112.43	84.276	77.682
5/10/2007	15:00	130.574	128.153	124.855	105.37	109.318	100.933	117.279	112.379	84.252	77.641
5/10/2007	15:30	130.538	128.132	124.815	105.341	109.284	101.04	117.251	112.352	84.231	77.62
5/10/2007	16:00	130.512	128.119	124.785	105.321	109.253	101.022	117.23	112.319	84.222	77.57
5/10/2007	16:30	130.497	128.107	124.769		109.24	101.01	117.214	112.301	84.204	77.541
5/10/2007	17:00	130.485	128.094	124.752	105.33	109.253	100.996	117.217	112.286	84.189	77.529
5/10/2007	17:30	130.476	128.085	124.744	105.315	109.243	100.986	115.7	112.272	84.174	77.516
5/10/2007	18:00	130.466	128.078	124.729	105.302	109.23	100.974	115.738	112.261	84.16	77.502
5/10/2007	18:30	130.454	128.073	124.72	105.3	109.222	100.967	115.751	112.25	84.148	77.491
5/10/2007	19:00	130.45	128.069	124.713	105.297	109.217	100.96	115.749	112.244	84.139	77.494
5/10/2007	19:30	130.447	128.071	124.711	105.294	109.213	100.958	115.741	112.239	84.13	77.487
5/10/2007	20:00	130.443	128.078	124.707	105.292	109.209	100.953	115.737	112.235	84.117	77.475
5/10/2007	20:30	130.445	128.082	124.709	105.292	109.211	100.953	115.739	112.237	84.108	77.473
5/10/2007	21:00	130.452	128.087	124.713	105.288	109.216	100.958	115.745	112.239	84.102	77.471
5/10/2007	21:30	130.459	128.087	124.718	105.286	109.224	100.965	115.752	112.248	84.097	77.471
5/10/2007	22:00	130.464	128.087	124.723	105.298	109.23	100.97	115.756	112.253	84.091	77.479
5/10/2007	22:30	130.464	128.078	124.725	105.297	109.23	100.97	115.756	112.253	84.084	77.473
5/10/2007	23:00	130.464	128.071	124.72	105.295	109.228	100.97	115.762	112.25	84.077	77.477
5/10/2007	23:30	130.457	128.071	124.715	105.29	109.224	100.965	115.752	112.244	84.069	77.465

Supplement 4:

Quality Control for Sample Collection, Handling, and Analysis

Supplement 4:

Quality Control for Sample Collection, Handling, and Analysis

Soil sampling and groundwater sampling were conducted in four field sessions during the 2006-2007 investigation at Barnes to complete the scope of work presented in the site-specific *Work Plan* and subsequent modifications (Argonne 2006a,b). The field sessions were as follows:

- First field session, mid July 2006:
 - Sampling of existing KDHE monitoring wells and three private wells.
- Second field session, late July-September 2006:
 - Installation of monitoring wells at locations MW5, MW7, MW8, MW9, MW10, MW11, and MW12.
- Third field session, February-March 2007:
 - Sampling of two public wells.
 - Installation of monitoring wells at locations MW6, MW13, MW14, MW15, MW16, and MW17.
 - Vertical-profile soil sampling during drilling of the monitoring wells.
- Fourth field session, April 2007:
 - Sampling of the monitoring well network.
 - Resampling of two public wells and one private well.

The QA/QC procedures for sample collection, handling, and analysis during this investigation were described in detail in the *Master Work Plan* (Argonne 2002) and the site-specific Barnes *Work Plan* (Argonne 2006a).

The sections below discuss the quality of the analytical data generated during the Barnes investigation. Evaluation of the organic analytical data was consistent with regulatory guidelines (EPA 1994).

S4.1 Sampling to Monitor Sample Collection, Handling, and Analysis Procedures

Sample collection and handling activities were monitored through the documentation of samples as they were collected and the use of chain-of-custody (COC) forms and custody seals to ensure sample integrity during handling and shipment. The QA/QC samples collected to monitor sample collection and handling activities included field blanks, equipment rinsates, and trip blanks. Field replicate samples were also collected, and samples were selected for duplicate analyses as a measure of analytical precision.

Waste characterization samples were collected to determine the appropriate handling procedures for soil waste generated during drilling and for wastewater generated during development and sampling of monitoring wells.

The QA/QC samples are listed in Table S4.1. Analytical results for carbon tetrachloride and chloroform in QA/QC samples collected to monitor sample collection and handling activities are in Table S4.2.

S4.1.1 Field Blanks

Two field blanks were collected to represent water used for equipment decontamination and drilling. Carbon tetrachloride was not detected in the field blanks (Table S4.2). Chloroform was detected at a trace concentration ($< 1 \mu\text{g/L}$) in one field blank.

S4.1.2 Equipment Rinsates

Two equipment rinsates were collected to monitor decontamination procedures for reusable sampling equipment. Carbon tetrachloride was not detected in the rinsate samples, indicating that cross-contamination of groundwater samples did not occur during sample collection. Chloroform was detected in one of the rinsate samples at a trace concentration ($< 1 \mu\text{g/L}$).

S4.1.3 Trip Blanks

As an indicator of cross-contamination of samples during shipment, 40 trip blanks were prepared and included with soil or water samples shipped for organic analyses. Included in the total were 18 water trip blanks and 15 soil trip blanks sent to the AGEM Laboratory; 3 water trip blanks sent to EnviroSystems, Inc. (ENVSYS); and 4 soil trip blanks sent to Severn-Trent Laboratories (STL). Analytical results, shown in Table S4.2, indicate that sample-handling procedures were followed during the 2006-2007 investigation and that cross-contamination of samples did not occur during shipment.

S4.1.4 Replicate Samples and Duplicate Analyses

As an indicator of consistency of the sampling methodology followed and to provide a measure of analytical precision, replicate soil and groundwater samples were collected, and samples were selected by the AGEM Laboratory for duplicate organic analyses. In addition, selected soil and groundwater samples were submitted for verification organic analysis at a secondary laboratory. Replicate samples, samples selected for duplicate analyses, and samples selected for verification organic analysis are listed in Table S4.1.

S4.1.5 Sample Representativeness

To aid in characterization of site contamination during the difficult and time-consuming drilling operations, a number of groundwater samples were collected for preliminary evaluation through quick-turnaround organic analyses at the AGEM Laboratory. These field evaluation samples included (1) groundwater samples collected without purging from open boreholes at several monitoring well locations and (2) samples collected from monitoring wells prior to complete well development and stabilization, or with inadequate purging. The results for the field evaluation samples were useful for quickly characterizing site contamination during the field program and aided in the selection of locations for additional monitoring wells, but the results are not reported as part of the data set generated by the investigation.

The monitoring well network was resampled at the conclusion of the field program, according to the monitoring well purging and sampling procedures outlined in the *Master Work Plan* (Argonne 2002). Comparison of the field measurements made prior to collection of the field

evaluation samples and prior to sampling of the wells at the conclusion of the field program confirmed that a number of the field evaluation results, though generally consistent with the results for samples collected with adequate purging, are not representative of site conditions.

S4.1.6 Disposal of Waste Soil and Water

Drilling of monitoring wells generated soil waste that was analyzed for carbon tetrachloride and chloroform and was taken to the Rolling Meadow Landfill in Topeka, Kansas, for disposal under a Special Waste Disposal Authorization obtained from the KDHE (Supplement 6 on CD). The concentrations of carbon tetrachloride in composite samples of water accumulated during development and sampling of monitoring wells (not detected to 2.8 µg/L; Table S4.2) were below the MCL and RBSL values of 5.0 µg/L. The accumulated wastewater was subsequently discharged at the north end of the former CCC/USDA grain storage facility, to an adjacent cornfield.

S4.2 Quality Control for Organic Analyses of Soil and Water Samples at the AGEM Laboratory

Vertical-profile subsurface soil sampling was conducted to investigate potential site contamination at 13 locations, from which 282 soil samples were collected. In addition, 5 replicate subsurface soil samples were collected for QC purposes (Table S4.1). The subsurface soils were analyzed at the AGEM Laboratory for VOCs, including carbon tetrachloride and chloroform, by using a modification of EPA Method 8260B (purge-and-trap method), as referenced in the EPA's SW-846 (EPA 1998), to achieve a quantitation limit of 10 µg/kg.

Soil samples were quick-frozen on dry ice as they were collected. In the laboratory, the VOCs present in each soil sample were extracted with methanol from the sample matrix. For the purge-and-trap soil analyses, an aliquot of the methanol extract was purged, and the volatile species were transferred to a sorbent tube. After purging, the sorbent tube was heated and backflushed with an inert gas to desorb the components into the gas chromatograph-mass spectrometer system.

Groundwater sampling was conducted (or attempted) at 22 locations, including 2 public wells (PWS2 and PWS3), 3 private wells (the Oentrich well, the Sedivy residence well, and the Sedivy backyard ["Sedivy1"] well), 4 existing monitoring well locations (MW1-MW4), and

13 monitoring well locations established during the current investigation (MW5-MW17). Single monitoring wells were installed at 5 of the new monitoring well locations (MW5, MW7, MW8, MW9, and MW17). Nested wells at various depths were installed at 8 of new monitoring well locations (MW6, MW10, MW11, MW12, MW13, MW14, MW15, and MW16). Previously existing monitoring well location MW1 was also installed as shallow and deep nested wells. As part of the investigation, 38 groundwater samples (and an additional 4 field replicate samples) were collected for organic analyses at the AGEM Laboratory by EPA Method 524.2 (EPA 1995) to achieve a quantitation limit of 1.0 µg/L.

Water samples shipped to the AGEM Laboratory were analyzed by the purge-and-trap method with a gas chromatograph-mass spectrometer system. For the purge-and-trap analyses, the VOCs present in the groundwater sample were extracted (purged) from the sample matrix by bubbling an inert gas through the sample. The purged components were trapped in a sorbent tube. After the purging, the sorbent tube was heated and backflushed with an inert gas to desorb the components into the analytical system.

For both the soil and water analyses, the compounds eluting from the gas chromatography column were identified by retention time and by comparison with reference library spectra. The concentration of each component was calculated by comparison of the mass spectrometer response for the quantitation ion to corresponding calibration curves, the responses for internal standards, or both. The internal standard recovery limits were 80-120%. Calibration checks with each sample delivery group (SDG) were required to be within $\pm 20\%$ of the standard.

Samples submitted to the AGEM Laboratory for organic analyses were analyzed in 50 SDGs, as shown in Table S4.3. The QA/QC procedures followed included analysis of instrument calibration check standards, analysis of laboratory blanks, monitoring of surrogate spike recovery, and duplicate laboratory analyses. Significant results include the following:

- Samples shipped to the AGEM Laboratory were received with custody seals intact and at the appropriate temperature. Samples were analyzed within required holding times.
- Carbon tetrachloride and chloroform, contaminants of concern in the investigation, were not detected in laboratory method blanks analyzed with the samples.

- For each SDG, analytical instrument calibration was monitored by the analysis of calibration check standards. Table S4.3 shows the relative percent difference (RPD) between the known and calculated concentrations of the standards. The concentrations of calibration check standards measured in all SDGs were within the acceptable range of $\pm 20\%$.
- Surrogate standard determinations were performed on samples and blanks by using surrogate spike compounds fluorobenzene, dichlorobenzene-d₄, and bromofluorobenzene. Table S4.3 shows the percent recovery of these system-monitoring compounds for each of the analyses. With four exceptions, the surrogate recoveries for all samples were within the specified range of 80-120%, in either the initial analysis or a successful reanalysis. The exceptions are as follows:
 - In the analyses of trip blank BAQCTB-S-21732 and soil sample BAMW9-S-21729 in SDG 06-8-8b, surrogate recovery was above the QC limit. Reanalysis was conducted with similar results. Because high recovery does not inhibit contaminant detection, the results for the samples are accepted without qualification.
 - In the analysis of trip blank BAQCTB-S-21845 in SDG 06-8-28, surrogate recovery was above the QC limit. Reanalysis was conducted with similar results. Because high recovery does not inhibit contaminant detection, the result for the sample is accepted without qualification.
 - In the analysis of the calibration standard in SDG 06-9-11, the recoveries of all three surrogate compounds were above the QC limit. The groundwater samples associated with the SDG were subsequently reanalyzed. The result for trip blank BAQCTB-W-21918, which could not be reanalyzed because of limited sample volume, is accepted without qualification. Cross-contamination of samples associated with the trip blank is not indicated.
 - In the analysis of the calibration standard in SDG 07-3-8a, the recovery of one of the three surrogate compounds was marginally above the QC limit. The results for the groundwater samples associated with this SDG are accepted without qualification.

- Secondary QC analyses of soil and groundwater samples at the AGEM Laboratory were conducted throughout the investigation as a measure of the consistency in the sampling and analytical methodologies. The secondary analyses were accomplished through the analysis of replicate samples submitted to the laboratory or duplicate analyses of samples selected by the laboratory. Table S4.4 summarizes the analytical results for carbon tetrachloride and chloroform in the primary samples and their associated replicate or duplicate analyses. Consistency in both the sampling and analytical methodologies is indicated by the average RPD values of 5.2% for carbon tetrachloride and 2.0% for chloroform in those dual analyses with the contaminants present above the method quantitation limit.

The analytical data from the AGEM Laboratory are acceptable for quantitative determination of contaminant distribution.

S4.3 Quality Control for Verification Organic Analysis of Soil Samples by Severn-Trent Laboratories

In accordance with the QA/QC procedures defined in the *Master Work Plan* (Argonne 2002), selected soil samples analyzed at the AGEM Laboratory for VOCs with EPA Method 8260B were subjected to verification analysis at a second laboratory with the same analytical procedure. Of the 282 vertical-profile soil samples analyzed at the AGEM Laboratory, 28 (10% of the soil samples) were also analyzed by STL. The results were reported in 4 SDGs. The quality of the organic analytical data from STL is discussed below.

The QA/QC procedures followed by STL included initial and continuing calibration of instruments, analysis of laboratory blanks, monitoring of surrogate spike recovery, and analyses of laboratory QC samples. Significant results include the following:

- Soil samples shipped were received with custody seals intact and at the appropriate temperature. All samples were analyzed within required holding times.
- Analytical instruments were properly tuned; initial and continuing calibration checks remained within the allowable limits.

- Carbon tetrachloride and chloroform, the primary contaminants of concern in the investigation, were not detected in blanks analyzed with the samples. Not reported here are low levels of butanone, chloromethane, bromomethane, toluene, and xylene present in the methanol used for soil extraction or in associated instrument blanks and detected in most samples. Also not reported are trace levels of fuel-related compounds (benzene, ethylbenzene, dichlorobenzene, trimethylbenzene, isopropylbenzene) and pesticides (naphthalene, methyl iodide, and trichloroethylene) that were found in some of the samples.
- Surrogate standard determinations were performed on samples and blanks by using the surrogate spike compounds toluene-d₈, 1,2-dichloroethane-d₄, bromofluorobenzene, and 1,2-dichlorobenzene-d₄. Table S4.5 shows the percent recovery of the system-monitoring compounds for each of the analyses. Although some of the soil verification samples exhibited surrogate recovery marginally below or above the specified QC limit for one or more surrogate compounds, the recovery of all four surrogate compounds in the analysis of sample BAMW5-S-21708 was extremely low, at 28-51%. The carbon tetrachloride and chloroform concentrations reported by STL for this sample are, therefore, qualified.
- Laboratory QC samples analyzed with each SDG contained a suite of spike compounds, including carbon tetrachloride and chloroform, to evaluate the matrix effect of samples on the analytical methodology. Table S4.6 shows the percent recovery of carbon tetrachloride and chloroform in analyses of the spiked samples. Quality control limits were met.

Analytical results for soil samples analyzed at the AGEM Laboratory with EPA Method 8260B are supported by the analytical results obtained by STL with the same analytical method. The verification organic results for the soil samples are summarized in Table S4.7. Agreement is good over the range of contaminant concentrations detected. Soil samples analyzed at the AGEM Laboratory with no detection of contamination were analyzed at STL with similar results. Low contaminant concentrations detected by the AGEM Laboratory in two of the soil samples were confirmed in the verification organic analysis by STL.

S4.4 Quality Control for Verification Organic Analysis of Groundwater Samples by EnviroSystems, Inc.

In accordance with the QA/QC procedures defined in the *Master Work Plan* (Argonne 2002), the analyses of water samples at the AGEM Laboratory with EPA Method 524.2 were verified by a second laboratory using the EPA-defined CLP methodology. Of the 38 groundwater samples collected, 5 (13% of the groundwater samples) were also analyzed according to CLP methodology by ENVSYS. In addition, 4 of the field evaluation samples were analyzed by ENVSYS. The results were reported in 3 SDGs. The quality of the CLP data is discussed below.

The QA/QC procedures followed in the CLP analyses included initial and continuing calibration of instruments, analysis of laboratory blanks, and monitoring of surrogate spike recovery. Significant results include the following:

- Water samples shipped to ENVSYS were received with custody seals intact and at the appropriate temperature. All samples were analyzed within required holding times.
- Analytical instruments were properly tuned; initial and continuing calibration checks remained within the allowable range for all contaminants of interest.
- Carbon tetrachloride and chloroform were not detected in the laboratory method blanks.
- Surrogate standard determinations were performed on samples and blanks by using the surrogate spike compounds toluene-d₈, bromofluorobenzene, and 1,2-dichloroethane-d₄. Table S4.8 shows the percent recovery of the system-monitoring compounds for each of the CLP analyses. The recovery of the surrogate spikes was within the acceptable range (identified in Table S4.8) specific to each surrogate.
- Matrix spike/matrix spike duplicate analyses were performed with each SDG. Recoveries of the spike compounds and RPD values between the spike and duplicate analyses were within control limits, as shown in Table S4.9.

Analytical results for groundwater samples analyzed at the AGEM Laboratory with EPA Method 524.2 are supported by the results from ENVSYS, obtained with EPA CLP methodology. The verification organic results for the groundwater samples are summarized in Table S4.10. Agreement is good over the range of contaminant concentrations detected. Two samples analyzed at the AGEM Laboratory with no detection of contamination were analyzed at the CLP laboratory with similar results. Carbon tetrachloride concentrations in samples analyzed by the AGEM Laboratory with the purge-and-trap method (1.0-20 µg/L) compare well with results obtained with CLP methodology (1.1-20 µg/L), with an average RPD value of 6.5%. Low concentrations of chloroform (approximately 2 µg/L) were confirmed by the CLP analyses.

S4.5 Quality Control for Nitrate-Nitrite Nitrogen Analyses of Groundwater Samples by Severn-Trent Laboratories

Five groundwater samples were collected for nitrate-nitrite nitrogen analysis by STL with EPA Method 353.2. Four of these samples were from the four existing KDHE monitoring wells, MW1D-MW4D, and one was from the Oentrich private well. The samples were analyzed within the specified holding time. A method blank analyzed with the samples was free of contamination. Good analytical precision in the analyses is indicated by the recovery of 99% achieved for the laboratory QC sample analyzed with the SDG. The results are acceptable for characterization of the water-bearing zone.

TABLE S4.1 Quality control samples collected to monitor sample collection and handling activities.

Location	Sample	Depth (ft BGL)	Sampling Date	Sample Description
<i>Field blanks</i>				
QC	BADRILLFLUID-W-21947	—	2/28/07	Drilling fluid water and water from the public water supply system used for equipment decontamination.
QC	BADRILLFLUID-W-17264	—	3/5/07	Sample collected from water supply tank (public water supply system) during drilling of MW6.
<i>Equipment rinsates</i>				
QC	BARINSATE-W-21691	—	7/20/06	Rinsate of decontaminated Redi-Flo tubing after collection of sample BAMW4D-W-21690.
QC	BAQCRI-W-22587	—	4/6/07	Rinsate of decontaminated Redi-Flo tubing after collection of sample BAMW10S-W-22586.
<i>Trip blanks</i>				
QC	BAQCTB-W-21692	—	7/20/06	Trip blank sent to the AGEM Laboratory with water samples listed on COC 3757.
QC	BATB-S-21705	—	7/31/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 3759.
QC	BAQCTB-S-21715	—	8/2/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 3524.
QC	BAQCTB-W-21714	—	8/2/06	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4732.
QC	BAQCTB-S-21736	—	8/3/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 4733.
QC	BAQCTB-S-21732	—	8/4/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 4734.
QC	BAQCTB-S-21743	—	8/5/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 4739.
QC	BAQCTB-W-21742	—	8/5/06	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4735.
QC	BAQCTB-S-21810	—	8/7/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4741, 4748, 4742, and 4747.
QC	BAQCTB-W-21812	—	8/7/06	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4746.
QC	BA-MEOH-081006	—	8/10/06	Trip blank sent to STL for verification organic analysis with soil samples listed on COC 4034.
QC	BAQCTB-S-21845	—	8/18/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4743 and 4738.
QC	BAQCTB-W-21848	—	8/19/06	Trip blank sent to the AGEM Laboratory with water samples listed on COC 3693.
QC	BAQCTB-W-21850	—	8/21/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4525 and 4526.
QC	BA-QCTB-82406	—	8/24/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 3691 and 3692.
QC	BAQCTB-S-21919	—	9/9/06	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4749, 4751, 4752, and 4754.

TABLE S4.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Sample Description
<i>Trip blanks (Cont.)</i>				
QC	BAQCTB-W-21918	—	9/9/06	Trip blank sent to the AGEM Laboratory with water sample listed on COC 4753.
QC	BAQCTB-W-21905	—	9/11/06	Trip blank sent to the AGEM Laboratory with water sample listed on COC 4766.
QC	BAQCTB-W-21910	—	9/13/06	Trip blank sent to the AGEM Laboratory with water sample listed on COC 4763.
QC	BA-MEOH-91306	—	9/14/06	Trip blank sent to STL for verification organic analysis with soil samples listed on COC 4037.
QC	BAQCTB-S-21935	—	2/27/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4183 and 3690.
QC	BAQCTB-W-21948	—	2/28/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 3693.
QC	BAQCTB-S-21962	—	3/2/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4525 and 4526.
QC	BAQCTB-S-17267	—	3/5/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 3691 and 3692.
QC	BAQCTB-W-17268	—	3/5/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 3694.
QC	BAQCTB-S-17282	—	3/6/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 3695.
QC	BAQCTB-W-17294	—	3/6/07	Trip blank sent to the AGEM Laboratory with field evaluation water sample BAMW15-W-17293, listed on COC 3696. Trip blank broken during shipment.
QC	BAQCTB-S-17298	—	3/7/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 3697.
QC	BAQCTB-W-17301	—	3/7/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4527.
QC	BAQCTB-S-22507	—	3/8/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COC 4536.
QC	BAQCTB-W-22490	—	3/8/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4535.
QC	BAQCTB-W-22512	—	3/9/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4128.
QC	BAQCTB-S-22543	—	3/10/07	Trip blank sent to the AGEM Laboratory with soil samples listed on COCs 4142 and 4539.
QC	BAQCTB-W-22547	—	3/10/07	Trip blank sent to the AGEM Laboratory with water samples listed on COC 4538.
QC	BA-S-Blank-31207	—	3/12/07	Trip blank sent to STL for verification organic analysis with soil samples listed on COC 4040.
QC	BAQCTB-W-31307	—	3/13/07	Trip blank sent to ENVSYS for verification organic analysis with water samples listed on COC 4041.
QC	BA-S-Blank-32007	—	3/20/07	Trip blank sent to STL for verification organic analysis with soil samples listed on COC 4042.
QC	BAQCTB-W-22581a	—	4/5/07	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COCs 4598 and 4599.
QC	BAQCTB-W-22581b	—	4/5/07	Trip blank sent to ENVSYS for verification organic analysis with water samples listed on COCs 4595 and 4596.
QC	BAQCTB-W-22590	—	4/6/07	Trip blank sent to the AGEM Laboratory for organic analyses with water samples listed on COCs 4600 and 3297.

TABLE S4.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Sample Description
<i>Waste characterization samples</i>				
QC	BAWW1-W-21712	—	8/2/06	Composite sample of wastewater generated during drilling of MW5. Drilling water circulated through borehole.
QC	BAPUR6-W-21912	—	9/13/06	Composite sample of purge/development water from nested monitoring wells at MW11 and MW12 locations, which had been containerized in three 1,500-gal tanks.
QC	BAPURGE-W-22591	—	4/6/07	Composite sample of containerized purge water from April 2007 mobilization.
<i>Replicate samples</i>				
MW1D	BAMW1D-W-21689	139.85–159.4	7/19/06	Replicate of monitoring well sample BAMW1D-W-21688.
MW9	BAMW9-S-21728	44	8/4/06	Replicate of soil sample BAMW9-S-21727.
MW8	BAMW8-S-21771	67	8/5/06	Replicate of soil sample BAMW8-S-21770.
MW8	BAMW8-W-21811	110–120	8/6/06	Replicate of field evaluation sample BAMW8-W-21806.
MW10	BAMW10-S-21823	31	8/17/06	Replicate of soil sample BAMW10-S-21822.
MW12	BAMW12-S-21898	99	9/9/06	Replicate of soil sample BAMW12-S-21897.
MW11D	BAQCDP-W-21911	125–135	9/13/06	Replicate of field evaluation sample BAMW11-W-21909.
MW15	BAMW15-S-17290	94	3/6/07	Replicate of soil sample BAMW15-S-17289.
MW5	BAMW5DUP-W-22592	110-120	4/6/07	Replicate of sample BAMW5-W-22589.
<i>Samples selected for duplicate organic analyses at the AGEM Laboratory</i>				
MW4D	BAMW4D-W-21690	98.38–118.22	7/20/06	Monitoring well sample collected after purging of 5 gal with the Redi-Flo pump at 0.5 gpm.
MW5	BAMW5-S-21704	33	7/31/06	Vertical-profile soil sample.
MW9	BAMW9-S-21721	30	8/3/06	Vertical-profile soil sample.
MW9	BAMW9-S-21728	44	8/4/06	Vertical-profile soil sample.
MW9	BAMW9-S-21733	63	8/4/06	Vertical-profile soil sample.
MW9	BAMW9-S-21738	80.5	8/4/06	Vertical-profile soil sample.
MW8	BAMW8-S-21761	29	8/5/06	Vertical-profile soil sample.
MW7	BAMW7-S-21792	54	8/6/06	Vertical-profile soil sample.
MW8	BAMW8-S-21777	96	8/6/06	Vertical-profile soil sample.
MW7	BAMW7-S-21798	84	8/7/06	Vertical-profile soil sample.
MW10	BAMW10-S-21818	13	8/17/06	Vertical-profile soil sample.
MW10	BAMW10-S-21822	31	8/17/06	Vertical-profile soil sample.
MW10D	BAMW10D-W-21847	115–125	8/21/06	Field evaluation sample collected from monitoring well during development.
MW11	BAMW11-S-21876	105	9/7/06	Vertical-profile soil sample.
MW12	BAMW12-S-21900	109	9/9/06	Vertical-profile soil sample.
MW11S	BAMW11-W-21904	40–50	9/11/06	Field evaluation sample collected from monitoring well during development.

TABLE S4.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Sample Description
<i>Samples selected for duplicate organic analyses at the AGEM Laboratory (Cont.)</i>				
MW12M	BAMW12-W-21906	90–100	9/12/06	Field evaluation sample collected from monitoring well during development.
MW13	BAMW13-S-21851	4	2/27/07	Vertical-profile soil sample.
MW13	BAMW13-S-21854	17	2/27/07	Vertical-profile soil sample.
MW13	BAMW13-S-21925	62	2/27/07	Vertical-profile soil sample.
MW13	BAMW13-S-21934	113	2/28/07	Vertical-profile soil sample.
MW14	BAMW14-S-21939	3.5	3/2/07	Vertical-profile soil sample.
MW14	BAMW14-S-21960	92	3/2/07	Vertical-profile soil sample.
MW6	BAMW6-S-21970	14	3/4/07	Vertical-profile soil sample.
MW6	BAMW6-S-17258	94	3/4/07	Vertical-profile soil sample.
MW6	BAMW6-S-17259	99	3/4/07	Vertical-profile soil sample.
MW15	BAMW15-S-17275	39	3/6/07	Vertical-profile soil sample.
MW15	BAMW15-S-17278	54	3/6/07	Vertical-profile soil sample.
MW16	BAMW16D-S-22495	60	3/8/07	Vertical-profile soil sample.
MW14D	BAMW14D-W-22486	123–133	3/8/07	Field evaluation sample collected from monitoring well during development.
MW17	BAMW17-S-22518	25	3/9/07	Vertical-profile soil sample.
PWS2	BAPWS2-W-22510	155	3/9/07	Public well sample.
MW17	BAMW17-S-22539	105	3/10/07	Vertical-profile soil sample.
MW14D	BAMW14D-W-22568	123	4/4/07	Monitoring well sample collected at low flow after purging of 14.7 gal with Redi-Flo pump at 0.5 gpm.
MW15D	BAMW15D-W-22561	105	4/4/07	Monitoring well sample collected at low flow after purging of 15 gal with Redi-Flo pump at < 1 gpm.
<i>Soil samples submitted for verification organic analysis by Severn-Trent Laboratories</i>				
MW5	BAMW5-S-21698	12	7/31/06	Vertical-profile soil sample.
MW5	BAMW5-S-21708	45.5	8/1/06	Vertical-profile soil sample.
MW9	BAMW9-S-21721	30	8/3/06	Vertical-profile soil sample.
MW9	BAMW9-S-21729	49	8/4/06	Vertical-profile soil sample.
MW9	BAMW9-S-21738	80.5	8/4/06	Vertical-profile soil sample.
MW8	BAMW8-S-21757	9	8/5/06	Vertical-profile soil sample.
MW7	BAMW7-S-21786	31	8/6/06	Vertical-profile soil sample.
MW8	BAMW8-S-21775	84	8/6/06	Vertical-profile soil sample.
MW8	BAMW8-S-21776	89	8/6/06	Vertical-profile soil sample.
MW7	BAMW7-S-21803	105	8/7/06	Vertical-profile soil sample.
MW10	BAMW10-S-21819	18	8/17/06	Vertical-profile soil sample.
MW10	BAMW10-S-21823	31	8/17/06	Vertical-profile soil sample.
MW11	BAMW11-S-21869	65	9/6/06	Vertical-profile soil sample.
MW11	BAMW11-S-21875	100	9/7/06	Vertical-profile soil sample.

TABLE S4.1 (Cont.)

Location	Sample	Depth (ft BGL)	Sampling Date	Sample Description
<i>Soil samples submitted for verification organic analysis by Severn-Trent Laboratories (Cont.)</i>				
MW12	BAMW12-S-21877	4	9/8/06	Vertical-profile soil sample.
MW13	BAMW13-S-21851	4	2/27/07	Vertical-profile soil sample.
MW13	BAMW13-S-21934	113	2/28/07	Vertical-profile soil sample.
MW14	BAMW14-S-21942	18	3/2/07	Vertical-profile soil sample.
MW14	BAMW14-S-21958	82	3/2/07	Vertical-profile soil sample.
MW14	BAMW14-S-21963	102	3/2/07	Vertical-profile soil sample.
MW6	BAMW6-S-21976	44	3/4/07	Vertical-profile soil sample.
MW15	BAMW15-S-17275	39	3/6/07	Vertical-profile soil sample.
MW15	BAMW15-S-17279	59	3/6/07	Vertical-profile soil sample.
MW15	BAMW15-S-17283	69	3/6/07	Vertical-profile soil sample.
MW16	BAMW16D-S-22493	44	3/8/07	Vertical-profile soil sample.
MW17	BAMW17-S-22527	70	3/10/07	Vertical-profile soil sample.
MW17	BAMW17-S-22532	75	3/10/07	Vertical-profile soil sample.
MW17	BAMW17-S-22533	80	3/10/07	Vertical-profile soil sample.
<i>Groundwater samples submitted for verification organic analysis by Envirosystems, Inc.</i>				
MW10D	BAMW10D-W-21847	115–125	8/21/06	Field evaluation sample from new monitoring well, collected during development.
Sedivy	BACW-W-21849	138	8/22/06	Sample from private well at East St. and Railroad Ave.
PWS3	BAPWS3-W-22511	160	3/9/07	Public well sample.
MW15D	BAMW15D-W-22508	105–115	3/9/07	Field evaluation sample from new monitoring well, collected during development.
MW15S	BAMW15S-W-22509	88–98	3/9/07	Field evaluation sample from new monitoring well, collected during development.
MW16S	BAMW16S-W-22513	76–86	3/9/07	Field evaluation sample from new monitoring well, collected during development.
MW14S	BAMW14S-W-22569	108–118	4/4/07	Monitoring well sample collected by using valved tube after purging of 1.5 gal.
MW9	BAMW9-W-22582	100–110	4/5/07	Monitoring well sample collected at low flow after purging of 5.25 gal with Redi-Flo pump at 0.5 gpm.
MW13S	BAMW13S-W-22575	112–122	4/5/07	Monitoring well sample collected by using valved tube after purging of 11 gal.

TABLES4.2 Results of analyses for volatile organic compounds in quality control samples collected to monitor sample collection and handling activities.

Sample	Sampling Date	Medium	Analysis Date	Analytical Method	Laboratory	Concentration			Quantitation Limit	Units
						Carbon Tetrachloride	Chloroform	Methylene Chloride		
Field blanks										
BADRILLFLUID-W-21947	2/28/07	Water	3/1/07	EPA E524.2	AGEM	ND ^a	0.2 J ^b	ND	1.0	µg/L
BADRILLFLUID-W-17264	3/5/07	Water	3/7/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
Equipment rinsates										
BARINSATE-W-21691	7/20/06	Water	7/21/06	EPA E524.2	AGEM	ND	0.4 J	ND	1.0	µg/L
BAQCRI-W-22587	4/6/07	Water	4/9/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
Trip blanks										
BAQCTB-W-21692	7/20/06	Water	7/21/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BATB-S-21705	7/31/06	Soil	8/2/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-S-21715	8/2/06	Soil	8/4/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-21714	8/2/06	Water	8/3/06	EPA E524.2	AGEM	ND	0.5 J	ND	1.0	µg/L
BAQCTB-S-21736	8/3/06	Soil	8/7/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-S-21732	8/4/06	Soil	8/8/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-S-21743	8/5/06	Soil	8/8/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-21742	8/5/06	Water	8/7/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-S-21810	8/7/06	Soil	8/10/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-21812	8/7/06	Water	8/8/06	EPA E524.2	AGEM	ND	0.6 J	ND	1.0	µg/L
BA-MEOH-081006	8/10/06	Soil	8/31/06	SW8260B	STL ^c	ND	ND	ND	10.0	µg/kg
BAQCTB-S-21845	8/18/06	Soil	8/30/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-21848	8/19/06	Water	8/22/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-W-21850	8/21/06	Water	8/25/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BA-QCTB-82406	8/24/06	Water	8/31/06	SW8260	ENVSYS ^d	ND	ND	ND	5.0	µg/L
BAQCTB-S-21919	9/9/06	Soil	9/19/06	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg

TABLE S4.2 (Cont.)

Sample	Sampling Date	Medium	Analysis Date	Analytical Method	Laboratory	Concentration			Quantitation Limit	Units
						Carbon Tetrachloride	Chloroform	Methylene Chloride		
Trip blanks (Cont.)										
BAQCTB-W-21918	9/9/06	Water	9/11/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-W-21905	9/11/06	Water	9/12/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-W-21910	9/13/06	Water	9/14/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BA-MEOH-91306	9/14/06	Soil	9/21/06	SW8260B	STL	ND	ND	ND	10.0	µg/kg
BAQCTB-S-21935	2/27/07	Soil	3/6/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-21948	2/28/07	Water	3/1/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-S-21962	3/2/07	Soil	3/7/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-S-17267	3/5/07	Soil	3/19/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-17268	3/5/07	Water	3/7/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-S-17282	3/6/07	Soil	3/9/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-17294	3/6/07	Water	–	EPA E524.2	AGEM	NA ^e	NA ^e	NA ^e	1.0	µg/L
BAQCTB-S-17298	3/7/07	Soil	3/19/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-17301	3/7/07	Water	3/8/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-S-22507	3/8/07	Soil	3/14/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-22490	3/8/07	Water	3/9/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-W-22512	3/9/07	Water	3/12/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-S-22543	3/10/07	Soil	3/19/07	SW8260B	AGEM	ND	ND	ND	10.0	µg/kg
BAQCTB-W-22547	3/10/07	Water	3/12/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BA-S-Blank-31207	3/12/07	Soil	3/23/07	SW8260B	STL	ND	ND	ND	10.0	µg/kg
BAQCTB-W-31307	3/13/07	Water	3/19/07	SW8260	ENVSYS	ND	ND	ND	5.0	µg/L
BA-S-Blank-32007	3/20/07	Soil	3/23/07	SW8260B	STL	ND	ND	ND	10.0	µg/kg
BAQCTB-W-22581a	4/5/07	Water	4/6/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAQCTB-W-22581b	4/5/07	Water	4/9/04	SW8260	ENVSYS	ND	ND	ND	5.0	µg/L
BAQCTB-W-22590	4/6/07	Water	4/9/07	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L

TABLE S4.2 (Cont.)

Sample	Sampling Date	Medium	Analysis Date	Analytical Method	Laboratory	Concentration				
						Carbon		Methylene	Quantitation	Units
						Tetrachloride	Chloroform	Chloride	Limit	
Waste characterization samples										
BAWW1-W-21712	8/2/06	Water	8/3/06	EPA E524.2	AGEM	1.9	0.2 J	ND	1.0	µg/L
BAPUR6-W-21912	9/13/06	Water	9/15/06	EPA E524.2	AGEM	ND	ND	ND	1.0	µg/L
BAPURGE-W-22591	4/6/07	Water	4/9/07	EPA E524.2	AGEM	2.8	0.3 J	ND	1.0	µg/L

^a ND, contaminant not detected.

^b Qualifier J indicates an estimated concentration below the indicated quantitation limit.

^c STL, Severn-Trent Laboratories.

^d ENVSYS, EnviroSystems, Inc.

^e NA, trip blank broken during shipment and not analyzed. Cross-contamination during shipment is not indicated.

TABLE S4.3 Calibration and surrogate recovery data for organic analyses of soil and water samples at the AGEM Laboratory.

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-7-21a, analysis date July 21, 2006									
20-ppb standard	119	111	111	23.88	4.4	23.23	3.7	25.08	5.6
Laboratory blank	100	100	100						
BAMW1D-W-21688	91	83	81						
BAMW2D-W-21687	103	109	106						
BAMW3D-W-21686	101	98	109						
BAMW4D-W-21690	102	104	105						
BAMW1D-W-21689	85	92	92						
BARINSATE-W-21691	97	97	94						
BAQCTB-W-21692	99	93	94						
SDG 06-7-21b, analysis date July 21, 2006									
20-ppb standard	100	113	103	19.12	1.1	20.54	0.7	19.8	0.3
Laboratory blank	100	100	100						
BAMW4D-W-21690DUP	90	97	92						
BAOENT-W-21693	99	101	102						
SDG 06-8-2, analysis date August 2, 2006									
20-ppb standard	100	100	100	20.91	1.1	20.97	1.2	22.5	2.9
Methanol blank	89	93	93						
BAMW5-S-21703	93	97	100						
BAMW5-S-21704	104	112	115						
BAMW5-S-21704DUP	90	100	99						
BAMW5-S-21700	94	102	102						
BAMW5-S-21701	93	104	101						
BAMW5-S-21696	87	95	97						
BAMW5-S-21702	95	104	101						
Methanol blank 2	111	107	107						
BAMW5-S-21699	92	93	98						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-2, analysis date August 2, 2006 (Cont.)									
BAMW5-S-21697	95	99	104						
BAMW5-S-21698	103	110	107						
BATB-S-21705	92	98	98						
SDG 06-8-3a, analysis date August 3, 2006									
20-ppb standard	96	103	106	20.71	0.9	20.14	0.2	22.42	2.9
Laboratory blank	100	100	100						
BAMW5-W-21711 ^d	105	112	113						
SDG 06-8-3b, analysis date August 3, 2006									
20-ppb standard	100	100	100	19.19	1.0	22.39	2.8	22.34	2.8
Laboratory blank	96	96	94						
BAWW5-W-21712	103	102	107						
BAOENT-W-21713	97	97	95						
BAQCTB-W-21714	94	95	91						
SDG 06-8-4, analysis date August 4, 2006									
20-ppb standard	100	100	100	20.61	0.8	20.16	0.2	22.95	3.4
Methanol blank	100	100	100						
BAMW5-S-21710	95	90	91						
BAMW5-S-21706	98	105	108						
BAMW5-S-21707	100	100	102						
BAMW5-S-21709	97	105	109						
BAMW5-S-21708	99	97	105						
BAQCTB-S-21715	97	95	100						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-7, analysis date August 7, 2006									
20-ppb standard	110	112	112	16.9	4.2	18.62	1.8	19.35	0.8
Laboratory blank	100	100	100						
BAMW9-W-21741 ^d	107	114	105						
BAMW9-W-21740 ^d	113	118	114						
BAQCTB-W-21742	106	109	104						
Methanol blank	100	100	100						
BAMW9-S-21720	95	95	97						
BAMW9-S-21716	97	101	97						
BAMW9-S-21722	103	104	96						
BAMW9-S-21719	106	112	108						
BAMW9-S-21717	95	93	90						
BAMW9-S-21718	100	104	102						
BAMW9-S-21721	94	99	99						
BAMW9-S-21721DUP	97	100	92						
BAQCTB-S-21736	104	103	102						
Methanol blank 2	99	103	99						
SDG 06-8-8a, analysis date August 8, 2006									
20-ppb standard	97	99	109	24	4.5	23.29	3.8	25.35	5.9
Methanol blank	100	100	100						
BAMW9-S-21730	100	97	97						
BAMW9-S-21723	97	96	99						
BAMW9-S-21724	95	88	94						
BAMW9-S-21725	94	89	95						
BAMW9-S-21731	91	84	91						
BAMW9-S-21728	87	82	88						
BAMW9-S-21728DUP	89	83	87						
BAMW9-S-21727	103	100	98						
Methanol blank 2	94	92	98						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-8a, analysis date August 8, 2006 (Cont.)									
BAMW9-S-21734	95	90	95						
BAMW9-S-21737	92	89	93						
BAQCTB-S-21743	89	88	94						
BAMW9-S-21738	89	88	89						
BAMW9-S-21738DUP	84	84	85						
SDG 06-8-8b, analysis date August 8, 2006									
20-ppb standard	107	103	101	18.68	1.7	21.16	1.4	21	1.2
Laboratory blank	100	100	100						
BAMW7-W-21805 ^d	95	94	91						
BAMW7-W-21799 ^d	96	97	97						
BAMW8-W-21811 ^d	93	91	94						
BAMW8-W-21806 ^d	93	90	93						
BAQCTB-W-21812	93	94	95						
Methanol blank	100	100	100						
BAQCTB-S-21732	100	129 ^e	123 ^e	Accepted. Also analyzed in SDG 06-8-11b with high recovery.					
BAMW9-S-21726	88	97	101						
BAMW9-S-21729	90	119	126 ^e	Accepted. Also analyzed in SDG 06-8-10b with high recovery.					
BAMW9-S-21735	87	103	104						
BAMW9-S-21739	86	92	100						
BAMW9-S-21733	81	85	92						
BAMW9-S-21733DUP	99	116	96						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-9a, analysis date August 9, 2006									
20-ppb standard	100	100	100	23.64	4.2	23.97	4.5	27.47	7.9
Methanol blank	90	87	85						
BAMW7-S-21790	89	90	94						
BAMW7-S-21797	90	93	99						
BAMW7-S-21786	89	90	96						
BAMW7-S-21793	91	92	98						
BAMW7-S-21787	104	104	104						
BAMW7-S-21788	127 ^e	116	116	Reanalyzed in SDG 06-8-11b with recovery limit met.					
Methanol blank 2	110	113	115						
BAMW7-S-21803	94	97	100						
BAMW7-S-21804	88	93	93						
BAMW7-S-21809	88	93	95						
BAMW7-S-21781	67 ^e	68 ^e	74 ^e	Reanalyzed in SDG 06-8-11b with recovery limit met.					
BAMW7-S-21783	86	90	96						
BAMW7-S-21785	87	91	92						
BAMW7-S-21798 ^d	83	86	94						
BAMW7-S-21798DUP ^d	87	89	92						
SDG 06-8-9b, analysis date August 9, 2006									
20-ppb standard	94	105	105	17.57	3.2	19.92	0.1	20.64	0.8
Methanol blank	108	108	108						
BAMW7-S-21794	102	51 ^e	103	Reanalyzed in SDG 06-8-11b with recovery limit met.					
BAMW7-S-21780	104	101	106						
BAMW7-S-21782	98	94	95						
BAMW7-S-21784	91	92	95						
BAMW7-S-21796	93	95	99						
BAMW7-S-21792	90	92	95						
BAMW7-S-21792DUP	88	86	90						
Methanol blank 2	92	92	92						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-9b, analysis date August 9, 2006 (Cont.)									
BAMW7-S-21801	97	96	95	Reanalyzed in SDG 06-8-11b with recovery limit met.					
BAMW9-S-21744	89	87	90						
BAMW7-S-21791	94	92	93						
BAMW7-S-21800	95	90	95						
BAMW7-S-21789	92	90	91						
BAMW7-S-21802	77 ^e	77 ^e	80						
SDG 06-8-10a, analysis date August 10, 2006									
20-ppb standard	100	100	100	23.72	4.3	23.69	4.2	24.92	5.5
Laboratory blank	100	100	100						
BAMW8-S-21769	99	103	106						
BAMW8-S-21779	99	98	108						
BAMW8-S-21774	96	94	102						
BAMW8-S-21775	96	102	102						
BAMW8-S-21763	100	98	105						
BAMW8-S-21761	96	97	101						
BAMW8-S-21761DUP	96	102	106						
Methanol blank	97	95	99						
BAMW8-S-21778	92	91	97						
BAMW8-S-21762	95	97	99						
BAMW8-S-21756	92	90	97						
BAMW8-S-21772	93	98	98						
BAMW8-S-21759	91	95	98						
BAMW8-S-21757	95	101	103						
BAQCTB-S-21810	94	96	103						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-10b, analysis date August 10, 2006									
20-ppb standard	100	100	100	17.44	3.4	20.84	1.0	20.86	1.1
Methanol blank	100	100	100						
BAMW8-S-21765	97	94	98						
BAMW8-S-21760	112	110	115						
BAMW8-S-21776	103	109	106						
BAMW8-S-21758	114	108	108						
BAMW8-S-21770	105	103	102						
BAMW8-S-21766	107	102	104						
BAMW8-S-21768	114	106	108						
BAMW8-S-21767	116	105	112						
BAMW8-S-21764	110	107	107						
BAMW8-S-21771	111	106	104						
Meoh Blank 2	111	104	100						
BAMW8-S-21773	109	103	103						
BAMW8-S-21777	108	98	102						
BAMW8-S-21777DUP	105	100	98						
BAMW9-S-21729	93	129 ^e	134 ^e	Second analysis with high recovery. Initial result accepted.					
SDG 06-8-11b, analysis date August 11, 2006									
20-ppb standard	100	100	100	16.69	4.5	19.75	0.3	19.66	0.4
Methanol blank	100	100	100						
BAQCTB-S-21732	106	149 ^e	136 ^e	Second analysis with high recovery. Initial result accepted.					
BAMW7-S-21781	100	108	109						
BAMW7-S-21788	96	94	100						
BAMW7-S-21802	100	95	101						
BAMW7-S-21794	92	89	96						
BAMW7-S-21795	96	96	100						
Methanol blank 2	99	99	101						
BAMW9-S-21729	97	132 ^e	132 ^e	Third analysis with high recovery. Initial result accepted					

				Measured Concentration and RPD Value for Calibration Check Standard					
Sample	Recovery of Surrogate Compounds ^a (%)			Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-21, analysis date August 21, 2006									
20-ppb standard	87	82	87	17.72	3.0	17.93	2.7	18.5	1.9
Laboratory blank	100	100	100						
BAMW10-W-21844 ^d	96	85	81						
SDG 06-8-22, analysis date August 22, 2006									
20-ppb standard	113	113	114	16.15	5.3	18.28	2.2	18	2.6
Laboratory blank	87	87	86						
BAQCTB-W-21848	95	92	99						
SDG 06-8-23, analysis date August 23, 2006									
20-ppb standard	110	105	104	20.86	1.1	22.42	2.9	22.64	3.1
Methanol blank	100	100	100						
BAMW10-S-21829	102	90	89						
BAMW10-S-21828	111	104	96						
BAMW10-S-21817	102	92	93						
BAMW10-S-21831	115	106	98						
BAMW10-S-21837	98	50 ^e	139 ^e	Reanalyzed in SDG 06-8-28 with recovery limit met.					
BAMW10-S-21834	127 ^e	109	94	Reanalyzed in SDG 06-8-28 with recovery limit met.					
BAMW10-S-21824	102	92	98						
BAMW10-S-21823	60 ^e	54 ^e	56 ^e	Reanalyzed in SDG 06-8-28 with recovery limit met.					
BAMW10-S-21825	51 ^e	45 ^e	53 ^e	Reanalyzed in SDG 06-8-28 with recovery limit met.					

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-24, analysis date August 24, 2006									
20-ppb standard	100	100	100	16.84	4.3	18.12	2.5	17.84	2.9
Laboratory blank	100	100	100						
BAMW10D-W-21847	113	120	120						
BAMW10D-W-21847DUP	108	111	115						
BACW-W-21849	61 ^e	69 ^e	71 ^e	Reanalyzed in SDG 06-8-25 with recovery limit met.					
BAMW10-W-21846	71 ^e	77 ^e	80	Reanalyzed in SDG 06-8-25 with recovery limit met.					
BAQCTB-W-21850	70 ^e	78 ^e	81	Reanalyzed in SDG 06-8-25 with recovery limit met.					
Methanol blank	100	100	100						
BAMW10-S-21816	103	107	104						
BAMW10-S-21820	114	128 ^e	126 ^e	Reanalyzed in SDG 06-8-28 with recovery limit met.					
BAMW10-S-21821	103	105	102						
BAMW10-S-21827	101	108	109						
BAMW10-S-21835	101	109	106						
BAMW10-S-21826	101	99	102						
BAMW10-S-21819	97	98	99						
Methanol blank 2	97	102	101						
BAMW10-S-21818	97	103	104						
BAMW10-S-21818DUP	97	98	100						
BAMW10-S-21830	94	98	102						
BAMW10-S-21839	104	109	109						
SDG 06-8-25, analysis date August 25, 2006									
20-ppb standard	103	108	88	15.63	6.1	18.6	1.8	17.92	2.7
Laboratory blank	100	100	100						
BAMW10-W-21846 ^d	108	114	115						
BACW-W-21849	96	100	97						
BAQCTB-W-21850	89	91	85						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-8-28, analysis date August 28, 2006									
20-ppb standard	96	108	109	17.72	3.0	18.99	1.3	17.96	2.7
Methanol blank	108	114	112						
BAMW10-S-21832	103	99	113						
BAMW10-S-21838	101	95	102						
BAMW10-S-21837	94	88	95						
BAMW10-S-21834	94	94	98						
BAMW10-S-21823	94	93	101						
BAMW10-S-21825	98	91	97						
BAMW10-S-21836	94	93	97						
Methanol blank 2	92	86	88						
BAMW10-S-21822	91	86	89						
BAMW10-S-21820	92	87	89						
BAMW10-S-21833	90	87	91						
BAQCTB-S-21845	107	135 ^e	123 ^e	Reanalyzed in SDG 06-8-30 with high recovery.					
SDG 06-8-30, analysis date August 30, 2006									
20-ppb standard	86	88	95	16.38	5.0	17.97	2.7	17.68	3.1
Laboratory blank	100	100	100						
BAMW10-S-21822	88	84	84						
BAMW10-S-21822DUP	92	85	87						
BAQCTB-S-21845	103	139 ^e	122 ^e	Second analysis with high recovery. Accepted.					
SDG 06-9-11, analysis date September 11, 2006									
20-ppb standard	126 ^e	144 ^e	121 ^e	17.39	3.5	18.21	2.3	18.36	2.1
Laboratory blank	100	100	100						
BAMW11-W-21866 ^d	115	174 ^e	156 ^e	Reanalyzed in SDG 06-9-15 with recovery limit met.					
BAMW12-W-21917 ^d	120	177 ^e	148 ^e	Reanalyzed in SDG 06-9-15 with recovery limit met.					

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-9-11, analysis date September 11, 2006 (Cont.)									
BAMW11-W-21916 ^d	126 ^e	181 ^e	168 ^e	Reanalyzed in SDG 06-9-15 with recovery limit met.					
BAQCTB-W-21918	95	98	99						
SDG 06-9-12, analysis date September 12, 2006									
20-ppb standard	113	117	103	17.41	3.5	17.92	2.7	17.74	3.0
Laboratory blank	107	106	105						
BAMW11-W-21902 ^d	101	97	98						
BAMW11-W-21903 ^d	86	96	103						
BAMW11-W-21904 ^d	85	85	89						
BAMW11-W-21904DUP ^d	85	88	94						
BAQCTB-W-21905	93	94	95						
Methanol blank	100	100	100						
BAMW12-S-21895	90	91	99						
BAMW12-S-21878	96	97	98						
BAMW12-S-21897	87	86	93						
BAMW12-S-21888	90	95	94						
BAMW11-S-21864	90	91	94						
BAMW12-S-21893	88	88	92						
BAMW11-S-21867	85	85	89						
BAMW12-S-21886	86	89	90						
SDG 06-9-13, analysis date September 13, 2006									
20-ppb standard	86	112	97	18.84	1.5	20.52	0.6	20.73	0.9
Laboratory blank	100	100	100						
BAMW12-S-21896	91	105	92						
BAMW11-S-21869	90	104	94						
BAMW12-S-21889	87	101	93						
BAMW12-S-21892	87	99	88						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-9-13, analysis date September 13, 2006 (Cont.)									
BAMW12-S-21884	85	98	88	Reanalyzed in SDG 06-9-18 with recovery limit met.					
BAMW12-S-21890	86	112	116						
BAMW12-S-21882	88	128 ^e	101						
BAMW11-S-21873	87	100	88	Reanalyzed in SDG 06-9-18 with recovery limit met.					
BAMW11-S-21863	77 ^e	88	81						
BAMW11-S-21862	86	96	87						
BAMW12-S-21899	85	96	84						
BAMW12-S-21877	81	94	84						
BAMW11-S-21870	82	94	86						
SDG 06-9-14, analysis date September 14, 2006									
20-ppb standard	100	100	100	18.49	2.0	19.63	0.5	19.45	0.7
Laboratory blank	100	100	100						
BAMW12-W-21908 ^d	86	89	87	Reanalyzed in SDG 06-9-15 with recovery limit met.					
BAMW12-W-21907 ^d	121 ^e	129 ^e	124 ^e						
BAMW12-W-21906 ^d	115	108	104						
BAMW12-W-21906DUP ^d	100	94	87						
BAQCDP-W-21911 ^d	99	97	94						
BAMW11-W-21909 ^d	125 ^e	125 ^e	125 ^e	Reanalyzed in SDG 06-9-15 with recovery limit met.					
BAPUR6-W-21912	120	135 ^e	133 ^e	Reanalyzed in SDG 06-9-15 with recovery limit met.					
BASED2-W-21913	133 ^e	136 ^e	135 ^e	Reanalyzed in SDG 06-9-15 with recovery limit met.					
BAQCTB-W-21910	108	109	107						

Reanalyzed in SDG 06-9-18 with recovery limit met.

Reanalyzed in SDG 06-9-18 with recovery limit met.

Reanalyzed in SDG 06-9-15 with recovery limit met.

Reanalyzed in SDG 06-9-15 with recovery limit met.

Reanalyzed in SDG 06-9-15 with recovery limit met.

Reanalyzed in SDG 06-9-15 with recovery limit met.

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 06-9-15, analysis date September 15, 2006									
20-ppb standard	110	109	101	17.88	2.8	16.03	5.5	15.79	5.9
Laboratory blank	100	100	100						
BAMW11-W-21916 ^d	112	110	108						
BAMW12-W-21917 ^d	110	109	109						
BAMW11-W-21866 ^d	105	113	110						
BAPUR6-W-21912	111	110	107						
BAMW12-W-21907 ^d	102	103	96						
BAMW11-W-21909 ^d	104	100	96						
BASED2-W-21913	102	97	93						
SDG 06-9-18, analysis date September 18, 2006									
20-ppb standard	100	100	100	18.89	1.4	16.73	4.5	15.99	5.6
Methanol blank	112	110	112						
BAMW12-S-21882	107	108	115						
BAMW11-S-21863	97	102	102						
BAMW11-S-21874	103	106	109						
BAMW11-S-21868	105	109	105						
BAMW12-S-21887	100	101	99						
BAMW12-S-21883	98	103	104						
BAMW12-S-21900	101	107	105						
BAMW12-S-21900DUP	99	95	101						
Methanol blank 2	94	98	97						
BAMW12-S-21891	101	100	103						
BAMW12-S-21885	96	94	99						
BAMW12-S-21898	93	94	94						
BAMW12-S-21879	100	94	99						
BAMW11-S-21858	95	99	100						
Methanol blank 3	97	102	100						
BAMW12-S-21880	94	97	98						

	Measured Concentration and RPD Value for Calibration Check Standard								
	Recovery of Surrogate Compounds ^a (%)			Carbon Tetrachloride		Chloroform		Methylene Chloride	
Sample	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
<i>SDG 06-9-18, analysis date September 18, 2006 (Cont.)</i>									
BAMW11-S-21857	98	101	100						
BAMW12-S-21881	98	98	101						
BAMW11-S-21876	94	97	98						
BAMW11-S-21876DUP	98	101	97						
Methanol blank 4	98	90	91						
<i>SDG 06-9-19, analysis date September 19, 2006</i>									
20-ppb standard	100	100	100	22.6	3.1	19.97	0.0	19.66	0.4
Methanol blank	100	100	100						
BAMW11-S-21860	93	105	110						
BAMW12-S-21894	91	96	96						
BAMW11-S-21872	95	96	100						
BAMW11-S-21871	95	101	106						
BAMW11-S-21875	91	95	95						
BAMW11-S-21856	94	100	99						
Meoh Blank 2	93	90	89						
BAMW11-S-21865	92	92	94						
BAMW11-S-21861	88	87	89						
BAMW11-S-21859	91	97	92						
BAMW12-S-21901	93	93	94						
BAQCTB-S-21919	89	85	87						
<i>SDG 07-3-1, analysis date March 1, 2007</i>									
20-ppb standard	110	119	96	19.09	1.2	18.47	2.0	19.13	1.1
Laboratory blank	100	100	100						
BAMW13-W-21946 ^d	99	144 ^e	159 ^e	Reanalyzed in SDG 07-3-6a with recovery limit met.					
BADRILLFLUID-W-21947	95	99	101						
BAQCTB-W-21948	97	98	96						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-5, analysis date March 5, 2007									
20-ppb standard	85	83	84	18.87	1.5	19.54	0.6	19.88	0.2
Methanol blank	108	112	111						
BAMW13-S-21855	111	116	115						
BAMW13-S-21924	96	99	100						
BAMW13-S-21928	106	105	107						
BAMW13-S-21694	101	101	103						
BAMW13-S-21923	96	100	101						
BAMW13-S-21921	96	100	101						
BAMW13-S-21915	96	98	99						
BAMW13-S-21695	95	95	99						
BAMW13-S-21936	92	100	99						
Methanol blank 2	92	88	89						
BAMW13-S-21851	90	98	96						
BAMW13-S-21851DUP	89	92	94						
Laboratory blank	100	100	100						
BAMW13-W-21946 ^d	88	131 ^e	135 ^e	Reanalyzed in SDG 07-3-6a with recovery limit met.					
Methanol blank 3	82	81	81						
BAMW13-S-21926	89	91	92						
BAMW13-S-21852	85	91	86						
BAMW13-S-21929	87	89	88						
BAMW13-S-21854	85	87	87						
BAMW13-S-21854DUP	83	85	88						
SDG 07-3-6a, analysis date March 6, 2007									
20-ppb standard	100	100	100	22.2	2.6	21.04	1.3	20.44	0.5
Methanol blank	100	100	100						
BAMW13-S-21927	94	93	87						
BAMW13-S-21932	98	98	96						
BAMW13-S-21938	96	96	94						
BAMW13-S-21745	99	101	96						

TABLE S4.3 (Cont.)

				Measured Concentration and RPD Value for Calibration Check Standard					
Sample	Recovery of Surrogate Compounds ^a (%)			Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-6a, analysis date March 6, 2007 (Cont.)									
BAMW13-S-21933	97	97	93	Reanalyzed in SDG 07-3-7b with recovery limit met.					
BAMW13-S-21925	98	99	98						
BAMW13-S-21925DUP	96	96	90						
Laboratory blank	100	100	100						
BAMW13-W-21946 ^d	97	96	98						
Methanol blank 2	88	88	84						
BAMW13-S-21853	87	84	79 ^e						
BAQCTB-S-21935	93	97	89						
BAMW14-S-21945	93	93	89						
BAMW14-S-21940	95	90	90						
BAMW14-S-21953	91	96	90						
BAMW14-S-21939	94	99	94						
BAMW14-S-21939DUP	92	97	90						
SDG 07-3-6b, analysis date March 6, 2007									
20-ppb standard	83	98	80	21.56	1.9	23.15	3.7	22.75	3.2
Laboratory blank	100	100	100						
BAMW6-W-17263 ^d	94	128 ^e	107	Reanalyzed in SDG 07-3-7b with recovery limit met.					
BAMW14D-W-17265 ^d	114	126 ^e	133 ^e	Reanalyzed in SDG 07-3-7b with recovery limit met.					
BAMW14S-W-17266 ^d	79 ^e	95	106	Reanalyzed in SDG 07-3-7b with recovery limit met.					
BADRILLFLUID-W-17264	11	126 ^e	128 ^e	Reanalyzed in SDG 07-3-7b with recovery limit met.					
BAQCTB-W-17268	77 ^e	84	84	Reanalyzed in SDG 07-3-7b with recovery limit met.					
Methanol blank	100	100	100						
BAMW13-S-21930	106	109	109	Reanalyzed in SDG 07-3-7b with recovery limit met.					
BAMW13-S-21931	90	89	90						
BAMW13-S-21937	97	119	122 ^e						
BAMW13-S-21914	98	100	102						
BAMW13-S-21922	98	99	98						
BAMW13-S-21934	100	99	100						
BAMW13-S-21934DUP	96	97	98						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-7a, analysis date March 7, 2007									
20-ppb standard	108	118	99	16.27	5.1	17.33	3.6	16.94	4.1
Laboratory blank	100	100	100						
BAMW15-W-17293 ^d	105	113	117						
Methanol blank	100	100	100						
BAMW14-S-21944	105	102	108						
BAMW14-S-21954	114	115	120						
BAMW14-S-21957	106	105	114						
BAMW14-S-21950	108	105	109						
BAMW14-S-21943	106	106	108						
BAMW14-S-21956	106	109	118						
BAMW14-S-21958	106	104	113						
BAMW14-S-21949	106	109	111						
BAMW14-S-21941	106	103	109						
BAMW14-S-21960	102	103	110						
BAMW14-S-21960DUP	104	107	111						
SDG 07-3-7b, analysis date March 7, 2007									
20-ppb standard	98	93	97	18.06	2.5	16.55	4.7	15.91	5.7
Laboratory blank	100	100	100						
BAMW14D-W-17265 ^d	89	91	90						
BADRILLFLUID-W-17264	96	91	97						
BAMW6-W-17263 ^d	94	98	100						
BAMW14S-W-17266 ^d	94	98	104						
BAQCTB-W-17268	91	90	91						
Laboratory blank 2	94	93	91						
Methanol blank	101	99	94						
BAMW13-S-21853	110	105	100						
BAMW13-S-21937	117	115	117						
BAMW14-S-21959	106	109	108						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-7b, analysis date March 7, 2007 (Cont.)									
BAMW14-S-21952	113	120	119						
BAMW14-S-21955	108	109	104						
BAMW14-S-21951	119	117	112						
BAMW14-S-21961	109	106	101						
BAMW14-S-21942	109	103	103						
BAQCTB-S-21962	109	108	99						
BAMW6-S-21984	113	110	106						
BAMW6-S-21980	109	110	106						
BAMW6-S-21975	106	111	109						
BAMW6-S-17259	109	107	107						
BAMW6-S-17259DUP	94	90	91						
SDG 07-3-8a, analysis date March 8, 2007									
20-ppb standard	120	137 ^e	112	20.75	0.9	21.33	1.6	21.82	2.2
Laboratory blank	100	100	100						
BAMW6S-W-17299 ^d	83	120	120						
BAMW6D-W-17300 ^d	98	103	100						
BAQCTB-W-17301	95	101	100						
Laboratory blank 2	95	99	97						
Methanol blank	86	80	82						
BAMW14-S-21965	106	93	93						
BAMW14-S-21963	100	88	92						
BAMW6-S-21978	101	92	91						
BAMW14-S-21964	99	91	90						
BAMW6-S-17258	100	89	90						
BAMW6-S-17258DUP	101	84	87						
BAQCTB-S-17267	118	149 ^e	140 ^e	Reanalyzed in SDG 07-3-19a with recovery limit met.					
BAMW6-S-17260	105	100	102						
BAMW14-S-21967	114	117	125 ^e	Reanalyzed in SDG 07-3-9b with recovery limit met.					
BAMW14-S-21966	121 ^e	141 ^e	133 ^e	Reanalyzed in SDG 07-3-9b with recovery limit met.					

TABLE S4.3 (Cont.)

				Measured Concentration and RPD Value for Calibration Check Standard					
Sample	Recovery of Surrogate Compounds ^a (%)			Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-8a, analysis date March 8, 2007 (Cont.)									
BAMW15-S-17279	111	122 ^e	122 ^e	Reanalyzed in SDG 07-3-9b with recovery limit met. Reanalyzed in SDG 07-3-9b with recovery limit met.					
BAMW15-S-17269	107	101	102						
BAMW15-S-17280	104	94	92						
BAMW15-S-17271	98	90	90						
SDG 07-3-8b, analysis date March 8, 2007									
20-ppb standard	100	100	100	19.44	0.7	17.91	2.8	16.87	4.2
Methanol blank	100	100	100						
BAMW6-S-21983	111	108	117	Reanalyzed in SDG 07-3-9b with recovery limit met.					
BAMW6-S-21974	116	109	126 ^e						
BAMW6-S-21972	105	104	113						
BAMW6-S-21968	110	109	114						
BAMW6-S-21969	106	102	115						
BAMW6-S-21976	103	105	109						
BAMW6-S-21971	107	106	112						
BAMW6-S-21985	100	105	99						
BAMW6-S-21977	100	103	98						
BAMW6-S-21981	96	103	97						
BAMW6-S-21973	100	101	100						
BAMW6-S-21982	100	102	100						
BAMW6-S-21970	100	103	100						
BAMW6-S-21970DUP	91	91	91						
SDG 07-3-9a, analysis date March 9, 2007									
20-ppb standard	117	120	113	16.8	4.3	18.46	2.0	16.71	4.5
Methanol blank	100	100	100						
BAMW16-W-22506 ^d	104	101	92						
BAMW13S-W-22489 ^d	107	109	103						

[illegible]

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-9b, analysis date March 9, 2007 (Cont.)									
BAMW15-S-17270	90	94	102						
BAMW15-S-17277	83	87	91						
BAMW15-S-17273	93	98	101						
BAMW15-S-17272	104	110	109						
BAMW15-S-17275	98	99	107						
BAMW15-S-17275DUP	94	96	102						
SDG 07-3-12a, analysis date March 12, 2007									
20-ppb standard	89	97	89	20.18	0.2	17.8	2.9	17.16	3.8
Laboratory blank	100	100	100						
BAMW16D-W-22544 ^d	91	97	90						
BAMW17-W-22545 ^d	89	95	92						
BAMW16S-W-22546 ^d	84	93	89						
BAQCTB-W-22547	87	90	88						
SDG 07-3-12b, analysis date March 12, 2007									
20-ppb standard	100	100	100	19	1.3	20.95	1.2	20.87	1.1
Laboratory blank	110	109	111						
BAMW16S-W-22513 ^d	94	90	88						
BAMW15S-W-22509 ^d	96	96	97						
BAMW15D-W-22508 ^d	95	97	97						
BAPWS3-W-22511	98	99	96						
BAPWS2-W-22510	93	96	97						
BAPWS2-W-22510DUP	90	92	93						
BAQCTB-W-22512	90	91	89						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-13, analysis date March 13, 2007									
20-ppb standard	100	106	105	20.66	0.8	20.89	1.1	20.66	0.8
Methanol blank	100	100	100						
BAMW15-S-17283	101	98	103						
BAQCTB-S-17298	111	151 ^e	157 ^e	Reanalyzed in SDG 07-3-19a with recovery limit met. Reanalyzed in SDG 07-3-19a with recovery limit met. Reanalyzed in SDG 07-3-19b with recovery limit met.					
BAQCTB-S-17267	112	171 ^e	164 ^e						
BAMW16D-S-17306	122 ^e	128 ^e	141 ^e						
BAMW16D-S-22495	110	104	114						
BAMW16D-S-22495DUP	107	100	117						
BAMW16D-S-17305	105	101	105						
BAMW16D-S-22497	104	99	111						
BAMW16D-S-22492	80	72 ^e	89	Reanalyzed in SDG 07-3-15 with recovery limit met.					
BAMW16D-S-22494	97	92	106						
Methanol blank 2	95	95	103						
BAMW16D-S-17307	99	92	101						
BAMW16D-S-17304	96	87	97						
SDG 07-3-14, analysis date March 14, 2007									
20-ppb standard	100	100	100	17.41	3.5	19.13	1.1	17.66	3.1
Methanol blank	94	89	85						
BAMW16D-S-22496	95	87	92						
BAMW16D-S-22493	102	99	105						
BAMW16D-S-17303	103	102	103						
BAMW16D-S-17302	115	122 ^e	129 ^e	Reanalyzed in SDG 07-3-15 with recovery limit met.					
BAMW16D-S-22491	95	92	95						
BAMW17-S-22535	107	125 ^e	129 ^e	Reanalyzed in SDG 07-3-15 with recovery limit met.					
BAMW17-S-22521	100	98	103						
Methanol blank 2	100	100	100						
BAMW17-S-22520	98	103	104						
BAMW17-S-22517	91	99	101						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-14, analysis date March 14, 2007 (Cont.)									
BAMW17-S-22525	96	92	100						
BAMW17-S-22539	103	108	112						
BAMW17-S-22539DUP	93	97	101						
BAQCTB-S-22507	84	87	92						
BAMW17-S-22519	94	88	92						
SDG 07-3-15, analysis date March 15, 2007									
20-ppb standard	110	106	108	16.05	5.5	18.08	2.5	15.83	5.8
Laboratory blank	106	102	94						
BAMW16D-S-17302	96	97	100						
BAMW17-S-22535	99	99	105						
BAMW17-S-22514	94	99	103						
BAMW17-S-22527	105	109	117						
BAMW17-S-22533	96	102	107						
BAMW17-S-22524	104	120	120						
BAMW17-S-22515	127 ^e	140 ^e	157 ^e	Reanalyzed in SDG 07-3-19b with recovery limit met.					
BAMW17-S-22538	93	99	104						
BAMW17-S-22522	88	93	97						
BAMW17-S-22534	88	91	92						
BAMW17-S-22526	89	92	100						
BAMW17-S-22516	96	104	104						
BAMW16D-S-22492	84	87	94						
SDG 07-3-19a, analysis date March 19, 2007									
20-ppb standard	100	100	100	17.29	3.6	17.72	3.0	20.58	0.7
Laboratory blank	100	100	100						
BAQCTB-S-17298	99	91	92						
BAQCTB-S-17267	101	109	105						
BAQCTB-S-22543	98	89	100						

				Measured Concentration and RPD Value for Calibration Check Standard					
Sample	Recovery of Surrogate Compounds ^a (%)			Carbon Tetrachloride		Chloroform		Methylene Chloride	
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-3-19b, analysis date March 19, 2007									
20-ppb standard	105	114	109	21.57	1.9	20.91	1.1	21.42	1.7
Laboratory blank	100	100	100						
BAMW17-S-22515	105	114	109						
BAMW16D-S-17306	100	100	100						
BAMW17-S-22537	97	93	95						
BAMW17-S-22541	102	97	107						
BAMW17-S-22518	91	105	111						
BAMW17-S-22518DUP	94	99	107						
Laboratory blank 2	90	94	95						
BAMW17-S-22542	89	89	91						
BAMW17-S-22532	92	88	88						
BAMW17-S-22540	86	86	87						
BAMW17-S-22523	84	82	91						
SDG 07-4-6a, analysis date April 6, 2007									
20-ppb standard	99	103	107	17.57	3.2	17.12	3.9	15.02	7.1
Laboratory blank	100	100	100						
BAMW13S-W-22575	106	112	115						
BAMW12D-W-22576	95	93	98						
BAPW3-W-22577	95	103	96						
BAPW2-W-22578	116	119	125 ^e	Reanalyzed in SDG 07-4-9a with recovery limit met.					
BAMW12M-W-22580	96	102	106						
BAQCTB-W-22581	106	104	108						
BAMW9-W-22582	92	98	101						
BAMW15D-W-22561	98	108	106						
BAMW15D-W-22561DUP	90	93	93						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-4-6b, analysis date April 6, 2007									
20-ppb standard	100	100	100	17.94	2.7	17.94	2.7	17.24	3.7
Laboratory blank	112	111	112						
BAMW15S-W-22560	98	101	100						
BAMW16D-W-22562	98	106	103						
BAMW16S-W-22563	91	94	95						
BAMW2D-W-22564	89	93	93						
BAMW1D-W-22565	89	90	91						
BAMW17D-W-22566	90	91	90						
BAMW3D-W-22567	86	89	88						
BAMW14D-W-22568	88	89	90						
BAMW14D-W-22568DUP	86	87	89						
BAMW14S-W-22569	87	85	85						
BAMW11S-W-22570	87	93	93						
BAMW11D-W-22571	81	87	88						
BAMW11M-W-22572	86	90	93						
BAMW6D-W-22573	88	89	88						
BAMW13D-W-22574	71 ^e	78 ^e	77 ^e	Reanalyzed in SDG 07-4-9a with recovery limit met.					
SDG 07-4-9a, analysis date April 9, 2007									
20-ppb standard	103	96	95	18.15	2.4	16.93	4.2	14.49	8.0
Laboratory blank	100	100	100						
BAPW2-W-22578	100	102	96						
BAMW13D-W-22574	97	93	92						

TABLE S4.3 (Cont.)

Sample	Recovery of Surrogate Compounds ^a (%)			Measured Concentration and RPD Value for Calibration Check Standard					
	Fluorobenzene	4-Bromo-fluorobenzene	1,2-Dichloro-benzene-d ₄	Carbon Tetrachloride		Chloroform		Methylene Chloride	
				ppb ^b	RPD ^c	ppb ^b	RPD ^c	ppb ^b	RPD ^c
SDG 07-4-9b, analysis date April 9, 2007									
20-ppb standard	95	91	89	20.18	0.2	19.5	0.6	20.55	0.7
Laboratory blank	100	100	100						
BAOENTRICH-W-22579	90	95	93						
BAMW4D-W-22583	98	101	106						
BAMW8-W-22584	97	99	99						
BAMW10D-W-22585	93	98	104						
BAMW10S-W-22586	101	103	108						
BAQCRI-W-22587	92	93	94						
BAMW7-W-22588	91	95	95						
BAMW5-W-22589	78 ^e	81	88	Reanalyzed in SDG 07-4-11 with recovery limit met.					
BAQCTB-W-22590	93	97	96						
BAPURGE-W-22591	92	95	96						
BAMW5DUP-W-22592	92	96	100						
SDG 07-4-11, analysis date April 11, 2007									
20-ppb standard	95	97	100	21.4	1.7	18.52	1.9	16.63	4.6
Laboratory blank	100	100	100						
BAMW5-W-22589	83	82	82						

^a Quality control range for recovery = 80–120%.

^b Concentration in parts per billion (µg/L in water or µg/kg in soil).

^c Quality control range for RPD = ±20%.

^d Field evaluation sample collected with inadequate purging.

^e Surrogate recovery outside quality control range.

TABLE S4.4 Results for secondary organic analyses of soil and water samples at the AGEM Laboratory.

Medium	Sample Type ^a	Location	Depth (ft)	Sampling Date	Sample	Analysis Type ^b	Analysis Date	Concentration			Units
								Carbon Tetrachloride	Chloroform	Methylene Chloride	
Water	MW	MW1D	139.85–159.4	7/19/06	BAMW1D-W-21688	Primary Replicate	7/21/06	1.0	ND ^c	ND	µg/L
					BAMW1D-W-21689		7/21/06	0.9 J ^d			µg/L
Water	MW	MW4D	98.38–118.22	7/20/06	BAMW4D-W-21690	Primary Duplicate	7/21/06	2.1	ND	ND	µg/L
					BAMW4D-W-21690DUP		7/21/06	2.1			µg/L
Soil	SB	MW5	33	7/31/06	BAMW5-S-21704	Primary Duplicate	8/2/06	25	ND	ND	µg/kg
					BAMW5-S-21704DUP		8/2/06	28			µg/kg
Water	MW	MW5	110–120	4/6/07	BAMW5-W-22589	Primary Replicate	4/11/07	0.6 J	ND	ND	µg/L
					BAMW5DUP-W-22592		4/9/07	0.6 J			µg/L
Soil	SB	MW6	14	3/4/07	BAMW6-S-21970	Primary Duplicate	3/8/07	ND	ND	ND	µg/kg
					BAMW6-S-21970DUP		3/8/07	ND			µg/kg
Soil	SB	MW6	94	3/4/07	BAMW6-S-17258	Primary Duplicate	3/8/07	ND	ND	ND	µg/kg
					BAMW6-S-17258DUP		3/8/07	ND			µg/kg
Soil	SB	MW6	99	3/4/07	BAMW6-S-17259	Primary Duplicate	3/7/07	ND	ND	ND	µg/kg
					BAMW6-S-17259DUP		3/7/07	ND			µg/kg
Soil	SB	MW7	54	8/6/06	BAMW7-S-21792	Primary Duplicate	8/9/06	4.9 J	1.6 J	ND	µg/kg
					BAMW7-S-21792DUP		8/9/06	5.1 J			µg/kg
Soil	SB	MW7	84	8/7/06	BAMW7-S-21798	Primary Duplicate	8/9/06	ND	ND	ND	µg/kg
					BAMW7-S-21798DUP		8/9/06	ND			µg/kg
Soil	SB	MW8	29	8/5/06	BAMW8-S-21761	Primary Duplicate	8/10/06	ND	ND	ND	µg/kg
					BAMW8-S-21761DUP		8/10/06	ND			µg/kg
Soil	SB	MW8	67	8/5/06	BAMW8-S-21770	Primary Replicate	8/10/06	ND	ND	ND	µg/kg
					BAMW8-S-21771		8/10/06	ND			µg/kg
Soil	SB	MW8	96	8/6/06	BAMW8-S-21777	Primary Duplicate	8/10/06	ND	ND	ND	µg/kg
					BAMW8-S-21777DUP		8/10/06	ND			µg/kg

TABLE S4.4 (Cont.)

Medium	Sample Type ^a	Location	Depth (ft)	Sampling Date	Sample	Analysis Type ^b	Analysis Date	Concentration			Units
								Carbon Tetrachloride	Chloroform	Methylene Chloride	
Water	MW	MW8	110–120	8/6/06	BAMW8-W-21806 ^e	Primary	8/8/06	4.4	0.2 J	ND	µg/L
					BAMW8-W-21811 ^e	Replicate	8/8/06	4.4	0.2 J	ND	µg/L
Soil	SB	MW9	30	8/3/06	BAMW9-S-21721	Primary	8/7/06	ND	ND	ND	µg/kg
					BAMW9-S-21721DUP	Duplicate	8/7/06	ND	ND	ND	µg/kg
Soil	SB	MW9	44	8/4/06	BAMW9-S-21727	Primary	8/8/06	ND	ND	ND	µg/kg
					BAMW9-S-21728	Replicate	8/8/06	ND	ND	ND	µg/kg
					BAMW9-S-21728DUP	Duplicate	8/8/06	ND	ND	ND	µg/kg
Soil	SB	MW9	63	8/4/06	BAMW9-S-21733	Primary	8/8/06	ND	ND	ND	µg/kg
					BAMW9-S-21733DUP	Duplicate	8/8/06	ND	ND	ND	µg/kg
Soil	SB	MW9	80.5	8/4/06	BAMW9-S-21738	Primary	8/8/06	ND	ND	ND	µg/kg
					BAMW9-S-21738DUP	Duplicate	8/8/06	ND	ND	ND	µg/kg
Soil	SB	MW10	13	8/17/06	BAMW10-S-21818	Primary	8/24/06	ND	ND	ND	µg/kg
					BAMW10-S-21818DUP	Duplicate	8/24/06	ND	ND	ND	µg/kg
Soil	SB	MW10	31	8/17/06	BAMW10-S-21822	Primary	8/30/06	2.2 J	1 J	ND	µg/kg
					BAMW10-S-21822DUP	Duplicate	8/30/06	2 J	1.2 J	ND	µg/kg
					BAMW10-S-21823	Replicate	8/28/06	1.5 J	1 J	ND	µg/kg
Water	MW	MW10D	115–125	8/21/06	BAMW10D-W-21847 ^e	Primary	8/24/06	1.9	0.2 J	ND	µg/L
					BAMW10D-W-21847DUP ^e	Duplicate	8/24/06	1.8	0.2 J	ND	µg/L
Soil	SB	MW11	105	9/7/06	BAMW11-S-21876	Primary	9/18/06	ND	ND	ND	µg/kg
					BAMW11-S-21876DUP	Duplicate	9/18/06	ND	ND	ND	µg/kg
Water	MW	MW11D	125–135	9/13/06	BAMW11-W-21909 ^e	Primary	9/15/06	0.6 J	ND	ND	µg/L
					BAQCDP-W-21911 ^e	Replicate	9/14/06	0.7 J	ND	ND	µg/L
Water	MW	MW11S	40–50	9/11/06	BAMW11-W-21904 ^e	Primary	9/12/06	ND	1.3	ND	µg/L
					BAMW11-W-21904DUP ^e	Duplicate	9/12/06	ND	1.3	ND	µg/L

TABLE S4.4 (Cont.)

Medium	Sample Type ^a	Location	Depth (ft)	Sampling Date	Sample	Analysis Type ^b	Analysis Date	Concentration			Units
								Carbon Tetrachloride	Chloroform	Methylene Chloride	
Soil	SB	MW12	99	9/9/06	BAMW12-S-21897 BAMW12-S-21898	Primary Replicate	9/12/06 9/18/06	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW12	109	9/9/06	BAMW12-S-21900 BAMW12-S-21900DUP	Primary Duplicate	9/18/06 9/18/06	ND ND	ND ND	ND ND	µg/kg µg/kg
Water	MW	MW12M	90–100	9/12/06	BAMW12-W-21906 ^e BAMW12-W-21906DUP ^e	Primary Duplicate	9/14/06 9/14/06	19 19	2.6 2.5	ND ND	µg/L µg/L
Soil	SB	MW13	4	2/27/07	BAMW13-S-21851 BAMW13-S-21851DUP	Primary Duplicate	3/5/07 3/5/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW13	17	2/27/07	BAMW13-S-21854 BAMW13-S-21854DUP	Primary Duplicate	3/5/07 3/5/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW13	60	2/27/07	BAMW13-S-21925 BAMW13-S-21925DUP	Primary Duplicate	3/6/07 3/6/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW13	113	2/28/07	BAMW13-S-21934 BAMW13-S-21934DUP	Primary Duplicate	3/6/07 3/6/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW14	3.5	3/2/07	BAMW14-S-21939 BAMW14-S-21939DUP	Primary Duplicate	3/6/07 3/6/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW14	92	3/2/07	BAMW14-S-21960 BAMW14-S-21960DUP	Primary Duplicate	3/7/07 3/7/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Water	MW	MW14D	123–133	3/8/07	BAMW14D-W-22486 ^e BAMW14D-W-22486DUP ^e	Primary Duplicate	3/9/07 3/9/07	1.3 1.5	ND ND	ND ND	µg/L µg/L
Water	MW	MW14D	123–133	4/4/07	BAMW14D-W-22568 BAMW14D-W-22568DUP	Primary Duplicate	4/6/07 4/6/07	1.2 1.2	ND ND	ND ND	µg/L µg/L

TABLE S4.4 (Cont.)

Medium	Sample Type ^a	Location	Depth (ft)	Sampling Date	Sample	Analysis Type ^b	Analysis Date	Concentration			Units
								Carbon Tetrachloride	Chloroform	Methylene Chloride	
Soil	SB	MW15	39	3/6/07	BAMW15-S-17275 BAMW15-S-17275DUP	Primary Duplicate	3/9/07 3/9/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW15	54	3/6/07	BAMW15-S-17278 BAMW15-S-17278DUP	Primary Duplicate	3/9/07 3/9/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW15	94	3/6/07	BAMW15-S-17289 BAMW15-S-17290	Primary Replicate	3/9/07 3/9/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Water	MW	MW15D	105–115	4/4/07	BAMW15D-W-22561 BAMW15D-W-22561DUP	Primary Duplicate	4/6/07 4/6/07	ND ND	ND ND	ND ND	µg/L µg/L
Soil	SB	MW16	60	3/8/07	BAMW16D-S-22495 BAMW16D-S-22495DUP	Primary Duplicate	3/13/07 3/13/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW17	25	3/9/07	BAMW17-S-22518 BAMW17-S-22518DUP	Primary Duplicate	3/19/07 3/19/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Soil	SB	MW17	105	3/10/07	BAMW17-S-22539 BAMW17-S-22539DUP	Primary Duplicate	3/14/07 3/14/07	ND ND	ND ND	ND ND	µg/kg µg/kg
Water	PW	PWS2	155	3/9/07	BAPWS2-W-22510 BAPWS2-W-22510DUP	Primary Duplicate	3/12/07 3/12/07	ND ND	ND ND	ND ND	µg/L µg/L

^a Sample types: MW, monitoring; SB, soil boring.

^b Replicate samples were prepared in the field; duplicate analyses were performed on samples selected in the laboratory.

^c ND, contaminant not detected at instrument detection limit of 0.1 µg/L for water samples or 1.0 µg/kg for soil samples.

^d Qualifier J indicates an estimated concentration below the purge-and-trap method quantitation limit of 1.0 µg/L for water samples or 10.0 µg/kg for soil samples.

^e Field evaluation sample.

TABLE S4.5 Recovery of system-monitoring compounds in verification organic analyses of soil samples by Severn-Trent Laboratories with EPA Method 8260B.

Sample	Analysis Date	Sample Delivery Group	Recovery ^a (%)			
			1,2-Dichloro-ethane-d ₄	Toluene-d ₈	Bromofluoro-benzene	1,2-Dichloro-benzene-d ₄
MEOHLCS	8/31/06	115736	105	104	120	74 ^b
BAMW9-S-21738	8/31/06	115736	123	87	108	79 ^b
BAMW7-S-21786	8/31/06	115736	129 ^b	115	138 ^b	89
BAMW7-S-21803	8/31/06	115736	207 ^b	164 ^b	186 ^b	144 ^b
BAMW9-S-21729	8/31/06	115736	243 ^b	191 ^b	218 ^b	158 ^b
BAMW5-S-21698	8/31/06	115736	88	64 ^b	81 ^b	64 ^b
BAMW5-S-21708	8/31/06	115736	36 ^b	35 ^b	51 ^b	28 ^b
BAMW9-S-21721	8/31/06	115736	122	100	121 ^b	86
BAMW8-S-21776	8/31/06	115736	104	92	107	82
BAMW8-S-21757	8/31/06	115736	140 ^b	118 ^b	138 ^b	106
BAMW8-S-21775	8/31/06	115736	83	65 ^b	85	57 ^b
BA-MEOH-081006	8/31/06	115736	100	90	100	89
LA082306LCS	8/23/06	115736	119	104	102	104
MBLK082306LA	8/23/06	115736	125 ^b	105	113	106
MIBDLCS	8/31/06	115736	101	95	96	89
MBLK083106MA	8/31/06	115736	118	90	102	96
BAMW11-S-21869	9/21/06	116345	122	97	102	92
MEOHLCS	9/21/06	116345	112	101	99	95
BA-MEOH-91306	9/21/06	116345	107	100	103	95
BAMW10-S-21823	9/21/06	116345	103	89	116	116
BAMW12-S-21877	9/21/06	116345	111	108	111	102
BAMW10-S-21819	9/21/06	116345	91	92	97	92
BAMW11-S-21875	9/21/06	116345	96	87	111	102
MIAALCS	9/20/06	116345	112	101	94	98
MBLK092006MA	9/20/06	116345	118	101	106	95
MIBBLCS	9/21/06	116345	97	105	101	103
MBLK092106MA	9/21/06	116345	100	105	108	98
MEOH032207LCS	3/23/07	119076	85	100	97	99
BAMW14-S-21958	3/23/07	119076	83	98	102	100
BA-S-Blank-31207	3/23/07	119076	90	93	98	99
BAMW13-S-21934	3/23/07	119076	80	102	97	93
BAMW13-S-21851	3/23/07	119076	84	93	98	98
BAMW14-S-21942	3/23/07	119076	69 ^b	88	93	94
BAMW6-S-21976	3/23/07	119076	81	98	101	98
BAMW14-S-21963	3/23/07	119076	73	89	98	100
BAMW15-S-17283	3/23/07	119076	82	89	100	102
BAMW15-S-17279	3/23/07	119076	95	97	100	98
BAMW15-S-17275	3/23/07	119076	78 ^b	88	101	100
MA032207LCS	3/23/07	119076	89	99	102	104
MBLK032207MA	3/23/07	119076	91	98	100	98

TABLE S4.5 (Cont.)

Sample	Analysis Date	Sample Delivery Group	Recovery ^a (%)			
			1,2-Dichloroethane-d ₄	Toluene-d ₈	Bromofluorobenzene	1,2-Dichlorobenzene-d ₄
MEOH032207LCS	3/23/07	119211	85	100	97	99
BA-S-Blank-32007	3/23/07	119211	81	86	88	92
BAMW16D-S-22493	3/23/07	119211	82	97	97	96
BAMW17-S-22533	3/23/07	119211	92	95	99	99
BAMW17-S-22532	3/23/07	119211	84	92	98	101
BAMW17-S-22527	3/23/07	119211	91	98	99	97
MA032207LCS	3/23/07	119211	89	99	102	104
MBLK032207MA	3/23/07	119211	91	98	100	98

^a Quality control ranges for recovery:

<u>Compound</u>	<u>Range (%)</u>
1,2-Dichloroethane-d ₄	80–125
Toluene-d ₈	85–115
Bromofluorobenzene	85–120
1,2-Dichlorobenzene-d ₄	80–125

^b Recovery outside quality control range.

TABLE S4.6 Recovery of contaminants of concern in laboratory quality control samples during verification organic analysis of soil samples by Severn-Trent Laboratories.

Sample	Analysis Date	Sample Delivery Group	Carbon Tetrachloride			Chloroform		
			Spiked Concentration (ppb) ^a	Detected Concentration (ppb) ^a	Recovery ^b (%)	Spiked Concentration (ppb) ^a	Detected Concentration (ppb) ^a	Recovery ^b (%)
LC082306LCS	8/23/06	115736	10	11	110	10	10	100
MEOHLCS	8/23/06	115736	100	110	110	100	93	93
MIBDLCS	8/31/06	115736	10	9.4	94	10	10	100
MIIALCS	9/20/06	116345	10	11	110	10	11	110
MIIBLCS	9/21/06	116345	10	9.5	95	10	10	100
MEOHLCS	9/21/06	116345	100	84	84	100	87	87
MA032207LCS	3/23/07	119076	10	10	100	10	10	100
MEOH032207LCS	3/23/07	119076	100	90	90	100	93	93
MA032207LCS	3/23/07	119211	10	10	100	10	10	100
MEOH032207LCS	3/23/07	119211	100	90	90	100	93	93

^a Concentration in parts per billion (µg/L in water or µg/kg in soil).

^b Quality control ranges for recovery:

Compound	Range (%)
Carbon tetrachloride	75–120
Chloroform	80–125

TABLE S4.7 Results of verification organic analyses of soil samples.

Location	Sample	Depth (ft BGL)	Sample Date	Concentration (µg/kg)			
				AGEM Laboratory		Severn-Trent Laboratories	
				Carbon Tetrachloride	Chloroform	Carbon Tetrachloride	Chloroform
MW5	BAMW5-S-21698	12	7/31/06	10 U ^a	10 U	10 U	10 U
MW5	BAMW5-S-21708	45.5	8/1/06	3.6 J ^b	5.6 J	29 S ^c	19 S
MW6	BAMW6-S-21976	44	3/4/07	10 U	10 U	8.1 U	8.1 U
MW7	BAMW7-S-21786	31	8/6/06	10 U	10 U	10 U	10 U
MW7	BAMW7-S-21803	105	8/7/06	10 U	10 U	8.2 U	8.2 U
MW8	BAMW8-S-21757	9	8/5/06	10 U	10 U	9.1 U	9.1 U
MW8	BAMW8-S-21775	84	8/6/06	10 U	10 U	9.8 U	9.8 U
MW8	BAMW8-S-21776	89	8/6/06	10 U	10 U	7.7 U	7.7 U
MW9	BAMW9-S-21721	30	8/3/06	10 U	10 U	9.3 U	9.3 U
MW9	BAMW9-S-21729	49	8/4/06	10 U	10 U	8.4 U	8.4 U
MW9	BAMW9-S-21738	80.5	8/4/06	10 U	10 U	8.7 U	8.7 U
MW10	BAMW10-S-21819	18	8/17/06	10 U	10 U	9.7 U	9.7 U
MW10	BAMW10-S-21823	31	8/17/06	1.5 J	1.0 J	2.0 J	9.1 U
MW11	BAMW11-S-21869	65	9/6/06	10 U	10 U	8.3 U	8.3 U
MW11	BAMW11-S-21875	100	9/7/06	10 U	10 U	11 U	11 U
MW12	BAMW12-S-21877	4	9/8/06	10 U	10 U	8.9 U	8.9 U
MW13	BAMW13-S-21851	4	2/27/07	10 U	10 U	8.0 U	8.0 U
MW13	BAMW13-S-21934	113	2/28/07	10 U	10 U	8.2 U	8.2 U
MW14	BAMW14-S-21942	18	3/2/07	10 U	10 U	8.6 U	8.6 U
MW14	BAMW14-S-21958	82	3/2/07	10 U	10 U	7.9 U	7.9 U
MW14	BAMW14-S-21963	102	3/2/07	10 U	10 U	7.6 U	7.6 U
MW15	BAMW15-S-17275	39	3/6/07	10 U	10 U	8.8 U	8.8 U
MW15	BAMW15-S-17279	59	3/6/07	10 U	10 U	9.2 U	9.2 U
MW15	BAMW15-S-17283	69	3/6/07	10 U	10 U	7.4 U	7.4 U
MW16	BAMW16D-S-22493	44	3/8/07	10 U	10 U	7.5 U	7.5 U
MW17	BAMW17-S-22527	70	3/10/07	10 U	10 U	7.3 U	7.3 U
MW17	BAMW17-S-22532	75	3/10/07	10 U	10 U	7.6 U	7.6 U
MW17	BAMW17-S-22533	80	3/10/07	10 U	10 U	7.5 U	7.5 U

^a Qualifier U indicates that the contaminant was not detected at the detection limit of 1.0 µg/kg.

^b Qualifier J indicates an estimated concentration below the indicated quantitation limit.

^c Qualifier S indicates that the surrogate recovery was outside the target limits.

TABLE S4.8 Recovery of system-monitoring compounds in verification organic analyses of water samples by Envirosystems, Inc.

Sample	Analysis Date	Sample Delivery Group	Recovery ^a (%)		
			Toluene-d ₈	Bromofluoro-benzene	1,2-Dichloro-ethane-d ₄
VBLKFS	8/31/06	0609079	108	100	92
BA-QCTB-82406	8/31/06	0609079	106	100	94
BACW-W-21849	8/31/06	0609079	108	98	96
BAMW10D-W-21847 ^b	8/31/06	0609079	108	98	96
BAMW10D-W-21847MS ^b	8/31/06	0609079	110	100	94
BAMW10D-W-21847MSD ^b	8/31/06	0609079	110	100	96
VBLKHR	3/19/07	0702060	104	102	102
BAQCTB-W-31307	3/19/07	0702060	102	100	102
BAMW15S-W-22509 ^b	3/19/07	0702060	102	100	100
BAPWS3-W-22511	3/19/07	0702060	106	102	108
BAMW16S-W-22513 ^b	3/19/07	0702060	104	100	100
BAMW15D-W-22508 ^b	3/19/07	0702060	102	98	104
VLCS	3/19/07	0702060	92	94	100
VLCSD	3/19/07	0702060	94	94	100
VBLKHM	4/9/07	0702160	88	88	94
BAMW13S-W-22575	4/9/07	0702160	98	94	102
BAMW9-W-22582	4/9/07	0702160	106	98	100
BAQCTB-W-22581	4/9/07	0702160	102	94	98
BAMW14S-W-22569	4/9/07	0702160	104	96	102

^a Quality control ranges for recovery:

<u>Compound</u>	<u>Range (%)</u>
Toluene-d ₈	88–110
Bromofluorobenzene	86–115
1,2-Dichloroethane-d ₄	76–114

^b Field evaluation groundwater sample.

TABLE S4.9 Recovery and relative percent difference values for spike/spike duplicate organic analyses by EnviroSystems, Inc., with CLP methodology.

Compound	Sample	Concentration (µg/L)			Recovery (%)			Relative Percent Difference	
		Spike Added	Initial Analysis	Duplicate Analysis	Initial Analysis	Duplicate Analysis	QC Range	RPD	QC Limit
Spike/spike duplicate analysis of groundwater sample BAMW10D-W-21847 in SDG 0609079									
1,1-Dichloroethene	0	50	56	56	112	112	61–145	0	14
Benzene	0	50	51	50	102	100	76–127	2	11
Trichloroethene	0	50	53	51	106	102	71–120	4	14
Toluene	0	50	53	52	106	104	76–125	2	13
Chlorobenzene	0	50	51	49	102	98	75–130	4	13
Spike/spike duplicate analysis of laboratory quality control sample in SDG 0702060									
1,1-Dichloroethene	0	50	49	50	98	100	61–145	2	14
Benzene	0	50	48	50	96	100	76–127	4	11
Trichloroethene	0	50	43	45	86	90	71–120	4	14
Toluene	0	50	49	51	98	102	76–125	4	13
Chlorobenzene	0	50	49	51	98	102	75–130	4	13
Spike/spike duplicate analysis of laboratory quality control sample associated with SDG 0702160 ^a									
1,1-Dichloroethene	0	50	50	45	100	90	61–145	10	14
Benzene	0	50	54	51	108	102	76–127	6	11
Trichloroethene	0	50	44	39	88	78	71–120	12	14
Toluene	0	50	54	52	108	104	76–125	4	13
Chlorobenzene	0	50	55	54	110	108	75–130	2	13

^a The laboratory Instrument Injection Logbook for the gas chromatograph associates the laboratory quality control sample analyzed in SDG 0702130 (Centralia project) with SDG 0702160 (Barnes project).

TABLE S4.10 Results of verification organic analyses of groundwater samples.

Location	Sample	Depth (ft)	Sample Date	Concentration (µg/L)								
				AGEM Laboratory			EnviroSystems, Inc.			Relative Percent Difference		
				Carbon Tetrachloride	Chloroform	Methylene Chloride	Carbon Tetrachloride	Chloroform	Methylene Chloride	Carbon Tetrachloride	Chloroform	Methylene Chloride
MW10D Sedivy	BAMW10D-W-21847 ^a	115–125	8/21/06	1.9	0.2 J	ND ^b	2 J ^c	ND	ND	5.1	–	–
	BACW-W-21849	138	8/22/06	ND	ND	ND	ND	ND	ND	–	–	–
MW15D	BAMW15D-W-22508 ^a	105–115	3/9/07	0.2 J	ND	ND	ND	ND	ND	–	–	–
MW15S	BAMW15S-W-22509 ^a	88–98	3/9/07	2.6	0.2 J	ND	ND	ND	ND	–	–	–
MW16S	BAMW16S-W-22513 ^a	76–86	3/9/07	ND	ND	ND	ND	ND	ND	–	–	–
PWS3	BAPWS3-W-22511	160	3/9/07	0.2 J	ND	ND	ND	ND	ND	–	–	–
MW14S	BAMW14S-W-22569	108–118	4/4/07	0.9 J	ND	ND	ND	ND	ND	–	–	–
MW9	BAMW9-W-22582	100–110	4/5/07	1.0	ND	ND	1.1 J	ND	ND	9.5	–	–
MW13S	BAMW13S-W-22575	112–122	4/5/07	21	1.6	ND	20	2 J	ND	4.9	22.2	–

^a Field evaluation groundwater sample.

^b ND, contaminant not detected.

^c QualifierJ indicates an estimated concentration below the quantitation limits of 1.0 µg/L for analyses at the AGEM Laboratory and 5.0 µg/L for analyses by EnviroSystems, Inc.

Supplement 5:
Outside Laboratory Data

Supplement 5 Contents

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September 7, 2006

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Building 203, Office 149
Argonne, IL 60439

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

Re: Laboratory Project No. 21005
Case: BARNES; SDG: 115736

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on August 12th, 2006. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 08/12/06 ETR No: 115736			
678696	BA-S-21738(6A)	08/09/06	LIQUID
678697	BA-S-21786(10A)	08/09/06	LIQUID
678698	BA-S-21803(20A)	08/09/06	LIQUID
678699	BA-S-21729(9A)	08/09/06	LIQUID
678700	BA-S-21698(10A)	08/09/06	LIQUID
678701	BA-S-21708(5A)	08/09/06	LIQUID
678702	BA-S-21721(7A)	08/09/06	LIQUID
678703	BA-S-21776(30A)	08/09/06	LIQUID
678704	BA-S-21757(20A)	08/09/06	LIQUID
678705	BA-S-21775(11A)	08/09/06	LIQUID
678706	BA-S-MEOH	08/09/06	LIQUID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

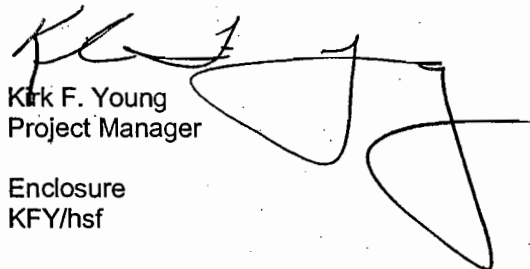
The samples were analyzed by Method 8260B, using a low-level calibration. In performing the analytical work, 500 microliters of the methanol extract were added to the 5 milliliter purge volume. With the exception of that performed on sample BA-S-MEOH, each of the analyses associated with the sample set did exhibit low internal standard performance. Additionally, the performance of the surrogate controls reflected general instability in each of the analyses, with the exception of those performed on samples BA-S-21776(30A) and BA-S-MEOH. Two types of laboratory control sample analyses were performed as part of the analytical sequence that included the primary field samples. One was performed to evaluate method performance, and one was performed with 500 microliters of methanol added to the purge volume in order to characterize the affect on the analytical process. The recovery of dichlorodifluoromethane was elevated in the laboratory control sample analysis that defined method performance (150 percent). The other

target analytes were recovered well in that analysis. In the laboratory control sample analysis with methanol, several of the earlier eluting compounds did exhibit lower recoveries, as did certain of the later eluting compounds. Additionally, the recoveries of isobutyl alcohol, 1,4-dioxane, 2-hexanone, and 1,1,2,2-tetrachloroethane were low in that analysis. Most profoundly affected was the performance of bromomethane, methyl iodide, isobutyl alcohol, 1,2-dibromo-3-chloropropene, 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene, for which the derived recovery values were below 20 percent. Chloroform and carbon tetrachloride were recovered well in each of the laboratory control sample analyses. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. Sample BA-S-MEOH was analyzed in a separate analytical sequence. Although that sequence included a laboratory control sample analysis to evaluate instrument performance, it did not include a laboratory control sample analysis to characterize the affects of methanol on the analytical process. In the laboratory control sample analysis, the recovery of dichlorodifluoromethane was elevated (160 percent), and there was a low recovery of 1,4-dioxane (64 percent). The other target analytes were recovered well in that analysis. A trace concentration of chloromethane was identified in the analysis of the instrument blank that was analyzed in association with sample BA-S-MEOH. The analysis of sample BA-S-MEOH did yield trace concentrations of toluene and m&p-xylene. The laboratory did associate the analysis of sample BA-S-MEOH with each of the other field sample analyses in order to reference the blank association, and accordingly qualify the reported results.

If there are any questions regarding this submittal, please contact me at (802) 655-1203. The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,



Kirk F. Young
Project Manager

Enclosure
KFY/hsf

STL Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: Greater than 40% difference for detected concentrations between two GC columns. Unless otherwise specified the higher of the two values is reported on the Form I.
- CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

4034

MATRIX: <u>SOIL- METHANOL</u>		ARGONNE NATIONAL LABORATORY		Shipping Container No.	
RECEIVING LAB: <u>SL- Burlington</u>		CHAIN OF CUSTODY RECORD*		Shipping Info:	
PROJECT/SITE: <u>BARNES</u>				ANL Field Contact (Name & Temporary Phone):	
SAMPLER(S) (Signature) <u>Lene Jensen</u>					
DATE OF COLLECTION	SAMPLE ID NUMBER(S)	Number of containers	ANALYSIS		
8/9/06	BA-S-21738 (6A)	1-20mL			MASS(g) Volume (mL)
	BA-S-21786 (10A)				11.512 10.0
	BA-S-21803 (20A)				10.016 10.0
	BA-S-21729 (9A)				12.217 10.0
	BA-S-21698 (10A)				11.974 10.0
	BA-S-21708 (5A)				9.904 10.0
	BA-S-21721 (7A)				12.850 10.0
	BA-S-21736 (30A)				10.792 10.0
	BA-S-21757 (20A)				13.065 10.0
	BA-S-21775 (11A)				11.014 10.0
	BA-S-META -				10.240 10.0
					- 10.0
					10mL
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
<u>[Signature]</u>	8/10/06				
Relinquished by (Signature)	Date	Time	Received for Laboratory by	Date	Time
<u>[Signature]</u>	8/10/06		<u>[Signature]</u>	8-10-06	1030
FOR LAB USE ONLY					
Y	N	Custody seal was intact when shipment received.			
		Sample containers were intact when received.			
		Shipment was at required temperature when received.			
		Sample labels, Tags and COC agree.			
Argonne National Laboratory, Applied Geosciences & Environmental Mgt. Group, Environmental Research Division, 9700 S. Cass Avenue, Argonne, IL 60439					



Sample Data Summary Package - 8260B Volatile

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2169810A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678700

Sample wt/vol: 9.9 (g/mL) G

Lab File ID: 678700

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8-----	Dichlorodifluoromethane	10	U
74-87-3-----	Chloromethane	9.3	J
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	31	
75-00-3-----	Chloroethane	10	U
75-69-4-----	Trichlorofluoromethane	10	U
107-02-8-----	Acrolein	50	U
75-35-4-----	1,1-Dichloroethene	10	U
76-13-1-----	Freon TF	10	U
67-64-1-----	Acetone	50	U
74-88-4-----	Methyl Iodide	22	
75-15-0-----	Carbon Disulfide	2.9	J
107-05-1-----	Allyl Chloride	10	U
75-09-2-----	Methylene Chloride	10	U
107-13-1-----	Acrylonitrile	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl-t-Butyl Ether	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
75-34-3-----	1,1-Dichloroethane	10	U
108-05-4-----	Vinyl Acetate	10	U
126-99-8-----	Chloroprene	10	U
594-20-7-----	2,2-Dichloropropane	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	330	
107-12-0-----	Propionitrile	40	U
74-97-5-----	Bromochloromethane	10	U
126-98-7-----	Methacrylonitrile	10	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
563-58-6-----	1,1-Dichloropropene	10	U
71-43-2-----	Benzene	3.8	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2169810A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678700

Sample wt/vol: 9.9 (g/mL) G

Lab File ID: 678700

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	500	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	5.2	J
78-87-5-----	1,2-Dichloropropane	10	U
74-95-3-----	Dibromomethane	10	U
80-62-6-----	Methyl Methacrylate	10	U
123-91-1-----	1,4-Dioxane	500	U
75-27-4-----	Bromodichloromethane	10	U
110-75-8-----	2-Chloroethyl Vinyl Ether	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	50	U
108-88-3-----	Toluene	13	B
10061-02-6-----	trans-1,3-Dichloropropene	10	U
97-63-2-----	Ethyl Methacrylate	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
142-28-9-----	1,3-Dichloropropane	10	U
591-78-6-----	2-Hexanone	50	U
124-48-1-----	Dibromochloromethane	10	U
106-93-4-----	1,2-Dibromoethane	10	U
108-90-7-----	Chlorobenzene	10	U
630-20-6-----	1,1,1,2-Tetrachloroethane	10	U
100-41-4-----	Ethylbenzene	4.7	J
1330-20-7-----	Xylene (m,p)	17	B
95-47-6-----	Xylene (o)	8.1	J
1330-20-7-----	Xylene (total)	26	B
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
98-82-8-----	Isopropylbenzene	2.1	J
1476-11-5-----	cis-1,4-Dichloro-2-butene	10	U
108-86-1-----	Bromobenzene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
96-18-4-----	1,2,3-Trichloropropane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2169810A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678700

Sample wt/vol: 9.9 (g/mL) G

Lab File ID: 678700

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	10	U
103-65-1-----	n-Propylbenzene	10	U
95-49-8-----	2-Chlorotoluene	10	U
106-43-4-----	4-Chlorotoluene	10	U
108-67-8-----	1,3,5-Trimethylbenzene	10	U
98-06-6-----	tert-Butylbenzene	10	U
95-63-6-----	1,2,4-Trimethylbenzene	10	U
135-98-8-----	sec-Butylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
99-87-6-----	4-Isopropyltoluene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
104-51-8-----	n-Butylbenzene	10	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
91-20-3-----	Naphthalene	2.4	J
87-61-6-----	1,2,3-Trichlorobenzene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217085A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678701

Sample wt/vol: 12.8 (g/mL) G

Lab File ID: 678701

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.8	U
74-87-3-----	Chloromethane	7.6	J
75-01-4-----	Vinyl Chloride	7.8	U
74-83-9-----	Bromomethane	15	
75-00-3-----	Chloroethane	7.8	U
75-69-4-----	Trichlorofluoromethane	7.8	U
107-02-8-----	Acrolein	39	U
75-35-4-----	1,1-Dichloroethene	7.8	U
76-13-1-----	Freon TF	7.8	U
67-64-1-----	Acetone	39	U
74-88-4-----	Methyl Iodide	9.9	
75-15-0-----	Carbon Disulfide	7.8	U
107-05-1-----	Allyl Chloride	7.8	U
75-09-2-----	Methylene Chloride	7.8	U
107-13-1-----	Acrylonitrile	7.8	U
156-60-5-----	trans-1,2-Dichloroethene	7.8	U
1634-04-4-----	Methyl-t-Butyl Ether	7.8	U
540-59-0-----	1,2-Dichloroethene (total)	7.8	U
75-34-3-----	1,1-Dichloroethane	7.8	U
108-05-4-----	Vinyl Acetate	7.8	U
126-99-8-----	Chloroprene	7.8	U
594-20-7-----	2,2-Dichloropropane	7.8	U
156-59-2-----	cis-1,2-Dichloroethene	7.8	U
78-93-3-----	2-Butanone	180	
107-12-0-----	Propionitrile	31	U
74-97-5-----	Bromochloromethane	7.8	U
126-98-7-----	Methacrylonitrile	7.8	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	19	
71-55-6-----	1,1,1-Trichloroethane	7.8	U
56-23-5-----	Carbon Tetrachloride	29	
563-58-6-----	1,1-Dichloropropene	7.8	U
71-43-2-----	Benzene	3.7	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217085A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678701

Sample wt/vol: 12.8 (g/mL) G

Lab File ID: 678701

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	390	U
107-06-2-----	1,2-Dichloroethane	7.8	U
79-01-6-----	Trichloroethene	2.9	J
78-87-5-----	1,2-Dichloropropane	7.8	U
74-95-3-----	Dibromomethane	7.8	U
80-62-6-----	Methyl Methacrylate	7.8	U
123-91-1-----	1,4-Dioxane	390	U
75-27-4-----	Bromodichloromethane	7.8	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.8	U
10061-01-5-----	cis-1,3-Dichloropropene	7.8	U
108-10-1-----	4-Methyl-2-pentanone	39	U
108-88-3-----	Toluene	12	B
10061-02-6-----	trans-1,3-Dichloropropene	7.8	U
97-63-2-----	Ethyl Methacrylate	7.8	U
79-00-5-----	1,1,2-Trichloroethane	7.8	U
127-18-4-----	Tetrachloroethene	7.8	U
142-28-9-----	1,3-Dichloropropane	7.8	U
591-78-6-----	2-Hexanone	39	U
124-48-1-----	Dibromochloromethane	7.8	U
106-93-4-----	1,2-Dibromoethane	7.8	U
108-90-7-----	Chlorobenzene	7.8	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.8	U
100-41-4-----	Ethylbenzene	4.2	J
1330-20-7-----	Xylene (m,p)	14	B
95-47-6-----	Xylene (o)	7.2	J
1330-20-7-----	Xylene (total)	22	B
100-42-5-----	Styrene	7.8	U
75-25-2-----	Bromoform	7.8	U
98-82-8-----	Isopropylbenzene	2.5	J
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.8	U
108-86-1-----	Bromobenzene	7.8	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.8	U
96-18-4-----	1,2,3-Trichloropropane	7.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217085A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678701

Sample wt/vol: 12.8 (g/mL) G

Lab File ID: 678701

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6	trans-1,4-Dichloro-2-butene	7.8	U
103-65-1	n-Propylbenzene	7.8	U
95-49-8	2-Chlorotoluene	7.8	U
106-43-4	4-Chlorotoluene	7.8	U
108-67-8	1,3,5-Trimethylbenzene	7.8	U
98-06-6	tert-Butylbenzene	7.8	U
95-63-6	1,2,4-Trimethylbenzene	7.8	U
135-98-8	sec-Butylbenzene	7.8	U
541-73-1	1,3-Dichlorobenzene	7.8	U
99-87-6	4-Isopropyltoluene	7.8	U
106-46-7	1,4-Dichlorobenzene	7.8	U
95-50-1	1,2-Dichlorobenzene	7.8	U
104-51-8	n-Butylbenzene	7.8	U
96-12-8	1,2-Dibromo-3-Chloropropane	7.8	U
120-82-1	1,2,4-Trichlorobenzene	7.8	U
87-68-3	Hexachlorobutadiene	7.8	U
91-20-3	Naphthalene	7.8	U
87-61-6	1,2,3-Trichlorobenzene	7.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217217A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678702

Sample wt/vol: 10.8 (g/mL) G

Lab File ID: 678702

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	9.3	U
74-87-3-----	Chloromethane	13	
75-01-4-----	Vinyl Chloride	9.3	U
74-83-9-----	Bromomethane	27	
75-00-3-----	Chloroethane	9.3	U
75-69-4-----	Trichlorofluoromethane	9.3	U
107-02-8-----	Acrolein	46	U
75-35-4-----	1,1-Dichloroethene	9.3	U
76-13-1-----	Freon TF	9.3	U
67-64-1-----	Acetone	46	U
74-88-4-----	Methyl Iodide	20	
75-15-0-----	Carbon Disulfide	9.3	U
107-05-1-----	Allyl Chloride	9.3	U
75-09-2-----	Methylene Chloride	9.3	U
107-13-1-----	Acrylonitrile	9.3	U
156-60-5-----	trans-1,2-Dichloroethene	9.3	U
1634-04-4-----	Methyl-t-Butyl Ether	9.3	U
540-59-0-----	1,2-Dichloroethene (total)	9.3	U
75-34-3-----	1,1-Dichloroethane	9.3	U
108-05-4-----	Vinyl Acetate	9.3	U
126-99-8-----	Chloroprene	9.3	U
594-20-7-----	2,2-Dichloropropane	9.3	U
156-59-2-----	cis-1,2-Dichloroethene	9.3	U
78-93-3-----	2-Butanone	270	
107-12-0-----	Propionitrile	37	U
74-97-5-----	Bromochloromethane	9.3	U
126-98-7-----	Methacrylonitrile	9.3	U
109-99-9-----	Tetrahydrofuran	130	U
67-66-3-----	Chloroform	9.3	U
71-55-6-----	1,1,1-Trichloroethane	9.3	U
56-23-5-----	Carbon Tetrachloride	9.3	U
563-58-6-----	1,1-Dichloropropene	9.3	U
71-43-2-----	Benzene	3.2	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217217A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678702

Sample wt/vol: 10.8 (g/mL) G

Lab File ID: 678702

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

78-83-1-----	Isobutyl Alcohol	460	U
107-06-2-----	1,2-Dichloroethane	9.3	U
79-01-6-----	Trichloroethene	4.6	J
78-87-5-----	1,2-Dichloropropane	9.3	U
74-95-3-----	Dibromomethane	9.3	U
80-62-6-----	Methyl Methacrylate	9.3	U
123-91-1-----	1,4-Dioxane	460	U
75-27-4-----	Bromodichloromethane	9.3	U
110-75-8-----	2-Chloroethyl Vinyl Ether	9.3	U
10061-01-5-----	cis-1,3-Dichloropropene	9.3	U
108-10-1-----	4-Methyl-2-pentanone	46	U
108-88-3-----	Toluene	11	B
10061-02-6-----	trans-1,3-Dichloropropene	9.3	U
97-63-2-----	Ethyl Methacrylate	9.3	U
79-00-5-----	1,1,2-Trichloroethane	9.3	U
127-18-4-----	Tetrachloroethene	9.3	U
142-28-9-----	1,3-Dichloropropane	9.3	U
591-78-6-----	2-Hexanone	46	U
124-48-1-----	Dibromochloromethane	9.3	U
106-93-4-----	1,2-Dibromoethane	9.3	U
108-90-7-----	Chlorobenzene	9.3	U
630-20-6-----	1,1,1,2-Tetrachloroethane	9.3	U
100-41-4-----	Ethylbenzene	4.5	J
1330-20-7-----	Xylene (m,p)	16	B
95-47-6-----	Xylene (o)	7.8	J
1330-20-7-----	Xylene (total)	25	B
100-42-5-----	Styrene	9.3	U
75-25-2-----	Bromoform	9.3	U
98-82-8-----	Isopropylbenzene	2.0	J
1476-11-5-----	cis-1,4-Dichloro-2-butene	9.3	U
108-86-1-----	Bromobenzene	9.3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9.3	U
96-18-4-----	1,2,3-Trichloropropane	9.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217217A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678702

Sample wt/vol: 10.8 (g/mL) G

Lab File ID: 678702

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	9.3	U
103-65-1-----	n-Propylbenzene	9.3	U
95-49-8-----	2-Chlorotoluene	9.3	U
106-43-4-----	4-Chlorotoluene	9.3	U
108-67-8-----	1,3,5-Trimethylbenzene	9.3	U
98-06-6-----	tert-Butylbenzene	9.3	U
95-63-6-----	1,2,4-Trimethylbenzene	9.3	U
135-98-8-----	sec-Butylbenzene	9.3	U
541-73-1-----	1,3-Dichlorobenzene	9.3	U
99-87-6-----	4-Isopropyltoluene	9.3	U
106-46-7-----	1,4-Dichlorobenzene	9.3	U
95-50-1-----	1,2-Dichlorobenzene	9.3	U
104-51-8-----	n-Butylbenzene	9.3	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	9.3	U
120-82-1-----	1,2,4-Trichlorobenzene	9.3	U
87-68-3-----	Hexachlorobutadiene	9.3	U
91-20-3-----	Naphthalene	9.3	U
87-61-6-----	1,2,3-Trichlorobenzene	9.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217299A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678699

Sample wt/vol: 12.0 (g/mL) G

Lab File ID: 678699

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	8.4	U
74-87-3-----	Chloromethane	15	
75-01-4-----	Vinyl Chloride	8.4	U
74-83-9-----	Bromomethane	42	
75-00-3-----	Chloroethane	8.4	U
75-69-4-----	Trichlorofluoromethane	8.4	U
107-02-8-----	Acrolein	41	U
75-35-4-----	1,1-Dichloroethene	8.4	U
76-13-1-----	Freon TF	8.4	U
67-64-1-----	Acetone	41	U
74-88-4-----	Methyl Iodide	17	
75-15-0-----	Carbon Disulfide	6.5	J
107-05-1-----	Allyl Chloride	8.4	U
75-09-2-----	Methylene Chloride	8.4	U
107-13-1-----	Acrylonitrile	8.4	U
156-60-5-----	trans-1,2-Dichloroethene	8.4	U
1634-04-4-----	Methyl-t-Butyl Ether	8.4	U
540-59-0-----	1,2-Dichloroethene (total)	8.4	U
75-34-3-----	1,1-Dichloroethane	8.4	U
108-05-4-----	Vinyl Acetate	8.4	U
126-99-8-----	Chloroprene	8.4	U
594-20-7-----	2,2-Dichloropropane	8.4	U
156-59-2-----	cis-1,2-Dichloroethene	8.4	U
78-93-3-----	2-Butanone	290	
107-12-0-----	Propionitrile	33	U
74-97-5-----	Bromochloromethane	8.4	U
126-98-7-----	Methacrylonitrile	8.4	U
109-99-9-----	Tetrahydrofuran	120	U
67-66-3-----	Chloroform	8.4	U
71-55-6-----	1,1,1-Trichloroethane	8.4	U
56-23-5-----	Carbon Tetrachloride	8.4	U
563-58-6-----	1,1-Dichloropropene	8.4	U
71-43-2-----	Benzene	5.2	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217299A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678699

Sample wt/vol: 12.0 (g/mL) G

Lab File ID: 678699

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	420	U
107-06-2-----	1,2-Dichloroethane	8.4	U
79-01-6-----	Trichloroethene	4.6	J
78-87-5-----	1,2-Dichloropropane	8.4	U
74-95-3-----	Dibromomethane	8.4	U
80-62-6-----	Methyl Methacrylate	8.4	U
123-91-1-----	1,4-Dioxane	420	U
75-27-4-----	Bromodichloromethane	8.4	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.4	U
10061-01-5-----	cis-1,3-Dichloropropene	8.4	U
108-10-1-----	4-Methyl-2-pentanone	41	U
108-88-3-----	Toluene	13	B
10061-02-6-----	trans-1,3-Dichloropropene	8.4	U
97-63-2-----	Ethyl Methacrylate	8.4	U
79-00-5-----	1,1,2-Trichloroethane	8.4	U
127-18-4-----	Tetrachloroethene	8.4	U
142-28-9-----	1,3-Dichloropropane	8.4	U
591-78-6-----	2-Hexanone	41	U
124-48-1-----	Dibromochloromethane	8.4	U
106-93-4-----	1,2-Dibromoethane	8.4	U
108-90-7-----	Chlorobenzene	8.4	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.4	U
100-41-4-----	Ethylbenzene	4.4	J
1330-20-7-----	Xylene (m,p)	16	B
95-47-6-----	Xylene (o)	7.5	J
1330-20-7-----	Xylene (total)	25	B
100-42-5-----	Styrene	8.4	U
75-25-2-----	Bromoform	8.4	U
98-82-8-----	Isopropylbenzene	1.8	J
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.4	U
108-86-1-----	Bromobenzene	8.4	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.4	U
96-18-4-----	1,2,3-Trichloropropane	8.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217299A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678699

Sample wt/vol: 12.0 (g/mL) G

Lab File ID: 678699

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----trans-1,4-Dichloro-2-butene_	8.4	U
103-65-1-----n-Propylbenzene	8.4	U
95-49-8-----2-Chlorotoluene	8.4	U
106-43-4-----4-Chlorotoluene	8.4	U
108-67-8-----1,3,5-Trimethylbenzene	8.4	U
98-06-6-----tert-Butylbenzene	8.4	U
95-63-6-----1,2,4-Trimethylbenzene	1.9	J
135-98-8-----sec-Butylbenzene	8.4	U
541-73-1-----1,3-Dichlorobenzene	8.4	U
99-87-6-----4-Isopropyltoluene	8.4	U
106-46-7-----1,4-Dichlorobenzene	8.4	U
95-50-1-----1,2-Dichlorobenzene	8.4	U
104-51-8-----n-Butylbenzene	8.4	U
96-12-8-----1,2-Dibromo-3-Chloropropane_	8.4	U
120-82-1-----1,2,4-Trichlorobenzene	8.4	U
87-68-3-----Hexachlorobutadiene	8.4	U
91-20-3-----Naphthalene	2.5	J
87-61-6-----1,2,3-Trichlorobenzene	8.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217386A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678696

Sample wt/vol: 11.5 (g/mL) G

Lab File ID: 678696

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	8.7	U
74-87-3-----	Chloromethane	25	
75-01-4-----	Vinyl Chloride	8.7	U
74-83-9-----	Bromomethane	57	
75-00-3-----	Chloroethane	8.7	U
75-69-4-----	Trichlorofluoromethane	8.7	U
107-02-8-----	Acrolein	43	U
75-35-4-----	1,1-Dichloroethene	8.7	U
76-13-1-----	Freon TF	8.7	U
67-64-1-----	Acetone	43	U
74-88-4-----	Methyl Iodide	55	
75-15-0-----	Carbon Disulfide	9.6	
107-05-1-----	Allyl Chloride	8.7	U
75-09-2-----	Methylene Chloride	8.7	U
107-13-1-----	Acrylonitrile	8.7	U
156-60-5-----	trans-1,2-Dichloroethene	8.7	U
1634-04-4-----	Methyl-t-Butyl Ether	8.7	U
540-59-0-----	1,2-Dichloroethene (total)	8.7	U
75-34-3-----	1,1-Dichloroethane	8.7	U
108-05-4-----	Vinyl Acetate	8.7	U
126-99-8-----	Chloroprene	8.7	U
594-20-7-----	2,2-Dichloropropane	8.7	U
156-59-2-----	cis-1,2-Dichloroethene	8.7	U
78-93-3-----	2-Butanone	580	
107-12-0-----	Propionitrile	35	U
74-97-5-----	Bromochloromethane	8.7	U
126-98-7-----	Methacrylonitrile	8.7	U
109-99-9-----	Tetrahydrofuran	120	U
67-66-3-----	Chloroform	8.7	U
71-55-6-----	1,1,1-Trichloroethane	8.7	U
56-23-5-----	Carbon Tetrachloride	8.7	U
563-58-6-----	1,1-Dichloropropene	8.7	U
71-43-2-----	Benzene	5.8	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217386A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678696

Sample wt/vol: 11.5 (g/mL) G

Lab File ID: 678696

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	430	U
107-06-2-----	1,2-Dichloroethane	8.7	U
79-01-6-----	Trichloroethene	14	
78-87-5-----	1,2-Dichloropropane	8.7	U
74-95-3-----	Dibromomethane	8.7	U
80-62-6-----	Methyl Methacrylate	8.7	U
123-91-1-----	1,4-Dioxane	430	U
75-27-4-----	Bromodichloromethane	8.7	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.7	U
10061-01-5-----	cis-1,3-Dichloropropene	8.7	U
108-10-1-----	4-Methyl-2-pentanone	43	U
108-88-3-----	Toluene	17	B
10061-02-6-----	trans-1,3-Dichloropropene	8.7	U
97-63-2-----	Ethyl Methacrylate	8.7	U
79-00-5-----	1,1,2-Trichloroethane	8.7	U
127-18-4-----	Tetrachloroethene	8.7	U
142-28-9-----	1,3-Dichloropropane	8.7	U
591-78-6-----	2-Hexanone	43	U
124-48-1-----	Dibromochloromethane	8.7	U
106-93-4-----	1,2-Dibromoethane	8.7	U
108-90-7-----	Chlorobenzene	8.7	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.7	U
100-41-4-----	Ethylbenzene	7.9	J
1330-20-7-----	Xylene (m,p)	26	B
95-47-6-----	Xylene (o)	12	
1330-20-7-----	Xylene (total)	40	B
100-42-5-----	Styrene	2.9	J
75-25-2-----	Bromoform	8.7	U
98-82-8-----	Isopropylbenzene	4.1	J
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.7	U
108-86-1-----	Bromobenzene	2.2	J
79-34-5-----	1,1,2,2-Tetrachloroethane	8.7	U
96-18-4-----	1,2,3-Trichloropropane	8.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-217386A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678696

Sample wt/vol: 11.5 (g/mL) G

Lab File ID: 678696

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----trans-1,4-Dichloro-2-butene_	8.7	U
103-65-1-----n-Propylbenzene	8.7	U
95-49-8-----2-Chlorotoluene	8.7	U
106-43-4-----4-Chlorotoluene	8.7	U
108-67-8-----1,3,5-Trimethylbenzene	8.7	U
98-06-6-----tert-Butylbenzene	8.7	U
95-63-6-----1,2,4-Trimethylbenzene	2.3	J
135-98-8-----sec-Butylbenzene	8.7	U
541-73-1-----1,3-Dichlorobenzene	8.7	U
99-87-6-----4-Isopropyltoluene	2.1	J
106-46-7-----1,4-Dichlorobenzene	5.8	J
95-50-1-----1,2-Dichlorobenzene	2.8	J
104-51-8-----n-Butylbenzene	3.7	J
96-12-8-----1,2-Dibromo-3-Chloropropane_	8.7	U
120-82-1-----1,2,4-Trichlorobenzene	8.7	U
87-68-3-----Hexachlorobutadiene	8.7	U
91-20-3-----Naphthalene	4.3	J
87-61-6-----1,2,3-Trichlorobenzene	8.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2175720A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678704

Sample wt/vol: 11.0 (g/mL) G

Lab File ID: 678704

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	9.1	U
74-87-3-----	Chloromethane	8.8	J
75-01-4-----	Vinyl Chloride	9.1	U
74-83-9-----	Bromomethane	28	
75-00-3-----	Chloroethane	9.1	U
75-69-4-----	Trichlorofluoromethane	9.1	U
107-02-8-----	Acrolein	45	U
75-35-4-----	1,1-Dichloroethene	9.1	U
76-13-1-----	Freon TF	9.1	U
67-64-1-----	Acetone	45	U
74-88-4-----	Methyl Iodide	10	
75-15-0-----	Carbon Disulfide	9.1	U
107-05-1-----	Allyl Chloride	9.1	U
75-09-2-----	Methylene Chloride	9.1	U
107-13-1-----	Acrylonitrile	9.1	U
156-60-5-----	trans-1,2-Dichloroethene	9.1	U
1634-04-4-----	Methyl-t-Butyl Ether	9.1	U
540-59-0-----	1,2-Dichloroethene (total)	9.1	U
75-34-3-----	1,1-Dichloroethane	9.1	U
108-05-4-----	Vinyl Acetate	9.1	U
126-99-8-----	Chloroprene	9.1	U
594-20-7-----	2,2-Dichloropropane	9.1	U
156-59-2-----	cis-1,2-Dichloroethene	9.1	U
78-93-3-----	2-Butanone	430	
107-12-0-----	Propionitrile	36	U
74-97-5-----	Bromochloromethane	9.1	U
126-98-7-----	Methacrylonitrile	9.1	U
109-99-9-----	Tetrahydrofuran	130	U
67-66-3-----	Chloroform	9.1	U
71-55-6-----	1,1,1-Trichloroethane	9.1	U
56-23-5-----	Carbon Tetrachloride	9.1	U
563-58-6-----	1,1-Dichloropropene	9.1	U
71-43-2-----	Benzene	4.4	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2175720A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678704

Sample wt/vol: 11.0 (g/mL) G

Lab File ID: 678704

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	450	U
107-06-2-----	1,2-Dichloroethane	9.1	U
79-01-6-----	Trichloroethene	4.0	J
78-87-5-----	1,2-Dichloropropane	9.1	U
74-95-3-----	Dibromomethane	9.1	U
80-62-6-----	Methyl Methacrylate	9.1	U
123-91-1-----	1,4-Dioxane	450	U
75-27-4-----	Bromodichloromethane	9.1	U
110-75-8-----	2-Chloroethyl Vinyl Ether	9.1	U
10061-01-5-----	cis-1,3-Dichloropropene	9.1	U
108-10-1-----	4-Methyl-2-pentanone	45	U
108-88-3-----	Toluene	12	B
10061-02-6-----	trans-1,3-Dichloropropene	9.1	U
97-63-2-----	Ethyl Methacrylate	9.1	U
79-00-5-----	1,1,2-Trichloroethane	9.1	U
127-18-4-----	Tetrachloroethene	9.1	U
142-28-9-----	1,3-Dichloropropane	9.1	U
591-78-6-----	2-Hexanone	45	U
124-48-1-----	Dibromochloromethane	9.1	U
106-93-4-----	1,2-Dibromoethane	9.1	U
108-90-7-----	Chlorobenzene	9.1	U
630-20-6-----	1,1,1,2-Tetrachloroethane	9.1	U
100-41-4-----	Ethylbenzene	4.8	J
1330-20-7-----	Xylene (m,p)	17	B
95-47-6-----	Xylene (o)	7.3	J
1330-20-7-----	Xylene (total)	26	B
100-42-5-----	Styrene	9.1	U
75-25-2-----	Bromoform	9.1	U
98-82-8-----	Isopropylbenzene	2.0	J
1476-11-5-----	cis-1,4-Dichloro-2-butene	9.1	U
108-86-1-----	Bromobenzene	9.1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9.1	U
96-18-4-----	1,2,3-Trichloropropane	9.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2175720A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678704

Sample wt/vol: 11.0 (g/mL) G

Lab File ID: 678704

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----trans-1,4-Dichloro-2-butene_	9.1	U
103-65-1-----n-Propylbenzene	9.1	U
95-49-8-----2-Chlorotoluene	9.1	U
106-43-4-----4-Chlorotoluene	9.1	U
108-67-8-----1,3,5-Trimethylbenzene	9.1	U
98-06-6-----tert-Butylbenzene	9.1	U
95-63-6-----1,2,4-Trimethylbenzene	9.1	U
135-98-8-----sec-Butylbenzene	9.1	U
541-73-1-----1,3-Dichlorobenzene	9.1	U
99-87-6-----4-Isopropyltoluene	9.1	U
106-46-7-----1,4-Dichlorobenzene	9.1	U
95-50-1-----1,2-Dichlorobenzene	9.1	U
104-51-8-----n-Butylbenzene	9.1	U
96-12-8-----1,2-Dibromo-3-Chloropropane	9.1	U
120-82-1-----1,2,4-Trichlorobenzene	9.1	U
87-68-3-----Hexachlorobutadiene	9.1	U
91-20-3-----Naphthalene	9.1	U
87-61-6-----1,2,3-Trichlorobenzene	9.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2177511A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678705

Sample wt/vol: 10.2 (g/mL) G

Lab File ID: 678705

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	9.8	U
74-87-3-----	Chloromethane	7.3	J
75-01-4-----	Vinyl Chloride	9.8	U
74-83-9-----	Bromomethane	17	
75-00-3-----	Chloroethane	9.8	U
75-69-4-----	Trichlorofluoromethane	9.8	U
107-02-8-----	Acrolein	48	U
75-35-4-----	1,1-Dichloroethene	9.8	U
76-13-1-----	Freon TF	9.8	U
67-64-1-----	Acetone	48	U
74-88-4-----	Methyl Iodide	7.3	J
75-15-0-----	Carbon Disulfide	9.8	U
107-05-1-----	Allyl Chloride	9.8	U
75-09-2-----	Methylene Chloride	9.8	U
107-13-1-----	Acrylonitrile	9.8	U
156-60-5-----	trans-1,2-Dichloroethene	9.8	U
1634-04-4-----	Methyl-t-Butyl Ether	9.8	U
540-59-0-----	1,2-Dichloroethene (total)	9.8	U
75-34-3-----	1,1-Dichloroethane	9.8	U
108-05-4-----	Vinyl Acetate	9.8	U
126-99-8-----	Chloroprene	9.8	U
594-20-7-----	2,2-Dichloropropane	9.8	U
156-59-2-----	cis-1,2-Dichloroethene	9.8	U
78-93-3-----	2-Butanone	230	
107-12-0-----	Propionitrile	39	U
74-97-5-----	Bromochloromethane	9.8	U
126-98-7-----	Methacrylonitrile	9.8	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	9.8	U
71-55-6-----	1,1,1-Trichloroethane	9.8	U
56-23-5-----	Carbon Tetrachloride	9.8	U
563-58-6-----	1,1-Dichloropropene	9.8	U
71-43-2-----	Benzene	2.6	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2177511A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678705

Sample wt/vol: 10.2 (g/mL) G

Lab File ID: 678705

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	490	U
107-06-2-----	1,2-Dichloroethane	9.8	U
79-01-6-----	Trichloroethene	9.8	U
78-87-5-----	1,2-Dichloropropane	9.8	U
74-95-3-----	Dibromomethane	9.8	U
80-62-6-----	Methyl Methacrylate	9.8	U
123-91-1-----	1,4-Dioxane	490	U
75-27-4-----	Bromodichloromethane	9.8	U
110-75-8-----	2-Chloroethyl Vinyl Ether	9.8	U
10061-01-5-----	cis-1,3-Dichloropropene	9.8	U
108-10-1-----	4-Methyl-2-pentanone	48	U
108-88-3-----	Toluene	9.7	JB
10061-02-6-----	trans-1,3-Dichloropropene	9.8	U
97-63-2-----	Ethyl Methacrylate	9.8	U
79-00-5-----	1,1,2-Trichloroethane	9.8	U
127-18-4-----	Tetrachloroethene	9.8	U
142-28-9-----	1,3-Dichloropropane	9.8	U
591-78-6-----	2-Hexanone	48	U
124-48-1-----	Dibromochloromethane	9.8	U
106-93-4-----	1,2-Dibromoethane	9.8	U
108-90-7-----	Chlorobenzene	9.8	U
630-20-6-----	1,1,1,2-Tetrachloroethane	9.8	U
100-41-4-----	Ethylbenzene	3.9	J
1330-20-7-----	Xylene (m,p)	14	B
95-47-6-----	Xylene (o)	6.3	J
1330-20-7-----	Xylene (total)	21	B
100-42-5-----	Styrene	9.8	U
75-25-2-----	Bromoform	9.8	U
98-82-8-----	Isopropylbenzene	9.8	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	9.8	U
108-86-1-----	Bromobenzene	9.8	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9.8	U
96-18-4-----	1,2,3-Trichloropropane	9.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2177511A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678705

Sample wt/vol: 10.2 (g/mL) G

Lab File ID: 678705

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	9.8	U
103-65-1-----	n-Propylbenzene	9.8	U
95-49-8-----	2-Chlorotoluene	9.8	U
106-43-4-----	4-Chlorotoluene	9.8	U
108-67-8-----	1,3,5-Trimethylbenzene	9.8	U
98-06-6-----	tert-Butylbenzene	9.8	U
95-63-6-----	1,2,4-Trimethylbenzene	9.8	U
135-98-8-----	sec-Butylbenzene	9.8	U
541-73-1-----	1,3-Dichlorobenzene	9.8	U
99-87-6-----	4-Isopropyltoluene	9.8	U
106-46-7-----	1,4-Dichlorobenzene	9.8	U
95-50-1-----	1,2-Dichlorobenzene	9.8	U
104-51-8-----	n-Butylbenzene	9.8	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	9.8	U
120-82-1-----	1,2,4-Trichlorobenzene	9.8	U
87-68-3-----	Hexachlorobutadiene	9.8	U
91-20-3-----	Naphthalene	9.8	U
87-61-6-----	1,2,3-Trichlorobenzene	9.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2177630A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678703

Sample wt/vol: 13.1 (g/mL) G

Lab File ID: 678703

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.7	U
74-87-3-----	Chloromethane	6.7	J
75-01-4-----	Vinyl Chloride	7.7	U
74-83-9-----	Bromomethane	12	
75-00-3-----	Chloroethane	7.7	U
75-69-4-----	Trichlorofluoromethane	7.7	U
107-02-8-----	Acrolein	38	U
75-35-4-----	1,1-Dichloroethene	7.7	U
76-13-1-----	Freon TF	7.7	U
67-64-1-----	Acetone	38	U
74-88-4-----	Methyl Iodide	10	
75-15-0-----	Carbon Disulfide	7.7	U
107-05-1-----	Allyl Chloride	7.7	U
75-09-2-----	Methylene Chloride	7.7	U
107-13-1-----	Acrylonitrile	7.7	U
156-60-5-----	trans-1,2-Dichloroethene	7.7	U
1634-04-4-----	Methyl-t-Butyl Ether	7.7	U
540-59-0-----	1,2-Dichloroethene (total)	7.7	U
75-34-3-----	1,1-Dichloroethane	7.7	U
108-05-4-----	Vinyl Acetate	7.7	U
126-99-8-----	Chloroprene	7.7	U
594-20-7-----	2,2-Dichloropropane	7.7	U
156-59-2-----	cis-1,2-Dichloroethene	7.7	U
78-93-3-----	2-Butanone	170	
107-12-0-----	Propionitrile	31	U
74-97-5-----	Bromochloromethane	7.7	U
126-98-7-----	Methacrylonitrile	7.7	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	7.7	U
71-55-6-----	1,1,1-Trichloroethane	7.7	U
56-23-5-----	Carbon Tetrachloride	7.7	U
563-58-6-----	1,1-Dichloropropene	7.7	U
71-43-2-----	Benzene	7.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2177630A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678703

Sample wt/vol: 13.1 (g/mL) G

Lab File ID: 678703

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	380	U
107-06-2-----	1,2-Dichloroethane	7.7	U
79-01-6-----	Trichloroethene	7.7	U
78-87-5-----	1,2-Dichloropropane	7.7	U
74-95-3-----	Dibromomethane	7.7	U
80-62-6-----	Methyl Methacrylate	7.7	U
123-91-1-----	1,4-Dioxane	380	U
75-27-4-----	Bromodichloromethane	7.7	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.7	U
10061-01-5-----	cis-1,3-Dichloropropene	7.7	U
108-10-1-----	4-Methyl-2-pentanone	38	U
108-88-3-----	Toluene	6.3	JB
10061-02-6-----	trans-1,3-Dichloropropene	7.7	U
97-63-2-----	Ethyl Methacrylate	7.7	U
79-00-5-----	1,1,2-Trichloroethane	7.7	U
127-18-4-----	Tetrachloroethene	7.7	U
142-28-9-----	1,3-Dichloropropane	7.7	U
591-78-6-----	2-Hexanone	38	U
124-48-1-----	Dibromochloromethane	7.7	U
106-93-4-----	1,2-Dibromoethane	7.7	U
108-90-7-----	Chlorobenzene	7.7	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.7	U
100-41-4-----	Ethylbenzene	2.6	J
1330-20-7-----	Xylene (m,p)	8.6	B
95-47-6-----	Xylene (o)	4.0	J
1330-20-7-----	Xylene (total)	13	B
100-42-5-----	Styrene	7.7	U
75-25-2-----	Bromoform	7.7	U
98-82-8-----	Isopropylbenzene	7.7	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.7	U
108-86-1-----	Bromobenzene	7.7	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.7	U
96-18-4-----	1,2,3-Trichloropropane	7.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2177630A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678703

Sample wt/vol: 13.1 (g/mL) G

Lab File ID: 678703

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene	7.7	U
103-65-1-----	n-Propylbenzene	7.7	U
95-49-8-----	2-Chlorotoluene	7.7	U
106-43-4-----	4-Chlorotoluene	7.7	U
108-67-8-----	1,3,5-Trimethylbenzene	7.7	U
98-06-6-----	tert-Butylbenzene	7.7	U
95-63-6-----	1,2,4-Trimethylbenzene	7.7	U
135-98-8-----	sec-Butylbenzene	7.7	U
541-73-1-----	1,3-Dichlorobenzene	7.7	U
99-87-6-----	4-Isopropyltoluene	7.7	U
106-46-7-----	1,4-Dichlorobenzene	7.7	U
95-50-1-----	1,2-Dichlorobenzene	7.7	U
104-51-8-----	n-Butylbenzene	7.7	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	7.7	U
120-82-1-----	1,2,4-Trichlorobenzene	7.7	U
87-68-3-----	Hexachlorobutadiene	7.7	U
91-20-3-----	Naphthalene	7.7	U
87-61-6-----	1,2,3-Trichlorobenzene	7.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2178610A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678697

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 678697

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	10	U
74-87-3-----	Chloromethane	7.5	J
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	17	
75-00-3-----	Chloroethane	10	U
75-69-4-----	Trichlorofluoromethane	10	U
107-02-8-----	Acrolein	50	U
75-35-4-----	1,1-Dichloroethene	10	U
76-13-1-----	Freon TF	10	U
67-64-1-----	Acetone	50	U
74-88-4-----	Methyl Iodide	15	
75-15-0-----	Carbon Disulfide	10	U
107-05-1-----	Allyl Chloride	10	U
75-09-2-----	Methylene Chloride	10	U
107-13-1-----	Acrylonitrile	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl-t-Butyl Ether	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
75-34-3-----	1,1-Dichloroethane	10	U
108-05-4-----	Vinyl Acetate	10	U
126-99-8-----	Chloroprene	10	U
594-20-7-----	2,2-Dichloropropane	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	160	
107-12-0-----	Propionitrile	40	U
74-97-5-----	Bromochloromethane	10	U
126-98-7-----	Methacrylonitrile	10	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
563-58-6-----	1,1-Dichloropropene	10	U
71-43-2-----	Benzene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2178610A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678697

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 678697

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	500	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	3.1	J
78-87-5-----	1,2-Dichloropropane	10	U
74-95-3-----	Dibromomethane	10	U
80-62-6-----	Methyl Methacrylate	10	U
123-91-1-----	1,4-Dioxane	500	U
75-27-4-----	Bromodichloromethane	10	U
110-75-8-----	2-Chloroethyl Vinyl Ether	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	50	U
108-88-3-----	Toluene	6.3	JB
10061-02-6-----	trans-1,3-Dichloropropene	10	U
97-63-2-----	Ethyl Methacrylate	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
142-28-9-----	1,3-Dichloropropane	10	U
591-78-6-----	2-Hexanone	50	U
124-48-1-----	Dibromochloromethane	10	U
106-93-4-----	1,2-Dibromoethane	10	U
108-90-7-----	Chlorobenzene	10	U
630-20-6-----	1,1,1,2-Tetrachloroethane	10	U
100-41-4-----	Ethylbenzene	2.5	J
1330-20-7-----	Xylene (m,p)	9.3	JB
95-47-6-----	Xylene (o)	4.6	J
1330-20-7-----	Xylene (total)	15	B
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
98-82-8-----	Isopropylbenzene	10	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	10	U
108-86-1-----	Bromobenzene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
96-18-4-----	1,2,3-Trichloropropane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2178610A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678697

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 678697

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene	10	U
103-65-1-----	n-Propylbenzene	10	U
95-49-8-----	2-Chlorotoluene	10	U
106-43-4-----	4-Chlorotoluene	10	U
108-67-8-----	1,3,5-Trimethylbenzene	10	U
98-06-6-----	tert-Butylbenzene	10	U
95-63-6-----	1,2,4-Trimethylbenzene	10	U
135-98-8-----	sec-Butylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
99-87-6-----	4-Isopropyltoluene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
104-51-8-----	n-Butylbenzene	10	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
91-20-3-----	Naphthalene	10	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2180320A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVLT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678698

Sample wt/vol: 12.2 (g/mL) G

Lab File ID: 678698

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

75-71-8-----	Dichlorodifluoromethane	8.2	U
74-87-3-----	Chloromethane	6.8	J
75-01-4-----	Vinyl Chloride	8.2	U
74-83-9-----	Bromomethane	18	
75-00-3-----	Chloroethane	8.2	U
75-69-4-----	Trichlorofluoromethane	8.2	U
107-02-8-----	Acrolein	41	U
75-35-4-----	1,1-Dichloroethene	10	
76-13-1-----	Freon TF	8.2	U
67-64-1-----	Acetone	41	U
74-88-4-----	Methyl Iodide	9.2	
75-15-0-----	Carbon Disulfide	8.2	U
107-05-1-----	Allyl Chloride	8.2	U
75-09-2-----	Methylene Chloride	8.2	U
107-13-1-----	Acrylonitrile	8.2	U
156-60-5-----	trans-1,2-Dichloroethene	8.2	U
1634-04-4-----	Methyl-t-Butyl Ether	8.2	U
540-59-0-----	1,2-Dichloroethene (total)	8.2	U
75-34-3-----	1,1-Dichloroethane	8.2	U
108-05-4-----	Vinyl Acetate	8.2	U
126-99-8-----	Chloroprene	8.2	U
594-20-7-----	2,2-Dichloropropane	8.2	U
156-59-2-----	cis-1,2-Dichloroethene	8.2	U
78-93-3-----	2-Butanone	240	
107-12-0-----	Propionitrile	33	U
74-97-5-----	Bromochloromethane	8.2	U
126-98-7-----	Methacrylonitrile	8.2	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	8.2	U
71-55-6-----	1,1,1-Trichloroethane	8.2	U
56-23-5-----	Carbon Tetrachloride	8.2	U
563-58-6-----	1,1-Dichloropropene	8.2	U
71-43-2-----	Benzene	2.4	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2180320A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678698

Sample wt/vol: 12.2 (g/mL) G

Lab File ID: 678698

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	410	U
107-06-2-----	1,2-Dichloroethane	8.2	U
79-01-6-----	Trichloroethene	3.7	J
78-87-5-----	1,2-Dichloropropane	8.2	U
74-95-3-----	Dibromomethane	8.2	U
80-62-6-----	Methyl Methacrylate	8.2	U
123-91-1-----	1,4-Dioxane	410	U
75-27-4-----	Bromodichloromethane	8.2	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.2	U
10061-01-5-----	cis-1,3-Dichloropropene	8.2	U
108-10-1-----	4-Methyl-2-pentanone	41	U
108-88-3-----	Toluene	7.5	JB
10061-02-6-----	trans-1,3-Dichloropropene	8.2	U
97-63-2-----	Ethyl Methacrylate	8.2	U
79-00-5-----	1,1,2-Trichloroethane	8.2	U
127-18-4-----	Tetrachloroethene	8.2	U
142-28-9-----	1,3-Dichloropropane	8.2	U
591-78-6-----	2-Hexanone	41	U
124-48-1-----	Dibromochloromethane	8.2	U
106-93-4-----	1,2-Dibromoethane	8.2	U
108-90-7-----	Chlorobenzene	8.2	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.2	U
100-41-4-----	Ethylbenzene	3.1	J
1330-20-7-----	Xylene (m,p)	11	B
95-47-6-----	Xylene (o)	4.7	J
1330-20-7-----	Xylene (total)	17	B
100-42-5-----	Styrene	8.2	U
75-25-2-----	Bromoform	8.2	U
98-82-8-----	Isopropylbenzene	8.2	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.2	U
108-86-1-----	Bromobenzene	8.2	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.2	U
96-18-4-----	1,2,3-Trichloropropane	8.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BAS-2180320A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678698

Sample wt/vol: 12.2 (g/mL) G

Lab File ID: 678698

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/23/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----trans-1,4-Dichloro-2-butene_	8.2	U
103-65-1-----n-Propylbenzene	8.2	U
95-49-8-----2-Chlorotoluene	8.2	U
106-43-4-----4-Chlorotoluene	8.2	U
108-67-8-----1,3,5-Trimethylbenzene	8.2	U
98-06-6-----tert-Butylbenzene	8.2	U
95-63-6-----1,2,4-Trimethylbenzene	8.2	U
135-98-8-----sec-Butylbenzene	8.2	U
541-73-1-----1,3-Dichlorobenzene	8.2	U
99-87-6-----4-Isopropyltoluene	8.2	U
106-46-7-----1,4-Dichlorobenzene	8.2	U
95-50-1-----1,2-Dichlorobenzene	8.2	U
104-51-8-----n-Butylbenzene	8.2	U
96-12-8-----1,2-Dibromo-3-Chloropropane_	8.2	U
120-82-1-----1,2,4-Trichlorobenzene	8.2	U
87-68-3-----Hexachlorobutadiene	8.2	U
91-20-3-----Naphthalene	8.2	U
87-61-6-----1,2,3-Trichlorobenzene	8.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-MEOH

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678706

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 678706E4

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	10	U
74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-69-4-----	Trichlorofluoromethane	10	U
107-02-8-----	Acrolein	50	U
75-35-4-----	1,1-Dichloroethene	10	U
76-13-1-----	Freon TF	10	U
67-64-1-----	Acetone	50	U
74-88-4-----	Methyl Iodide	10	U
75-15-0-----	Carbon Disulfide	10	U
107-05-1-----	Allyl Chloride	10	U
75-09-2-----	Methylene Chloride	10	U
107-13-1-----	Acrylonitrile	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl-t-Butyl Ether	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
75-34-3-----	1,1-Dichloroethane	10	U
108-05-4-----	Vinyl Acetate	10	U
126-99-8-----	Chloroprene	10	U
594-20-7-----	2,2-Dichloropropane	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	50	U
107-12-0-----	Propionitrile	40	U
74-97-5-----	Bromochloromethane	10	U
126-98-7-----	Methacrylonitrile	10	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
563-58-6-----	1,1-Dichloropropene	10	U
71-43-2-----	Benzene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-MEOH

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVLT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678706

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 678706E4

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	500	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
74-95-3-----	Dibromomethane	10	U
80-62-6-----	Methyl Methacrylate	10	U
123-91-1-----	1,4-Dioxane	500	U
75-27-4-----	Bromodichloromethane	10	U
110-75-8-----	2-Chloroethyl Vinyl Ether	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	50	U
108-88-3-----	Toluene	2.4	J
10061-02-6-----	trans-1,3-Dichloropropene	10	U
97-63-2-----	Ethyl Methacrylate	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
142-28-9-----	1,3-Dichloropropane	10	U
591-78-6-----	2-Hexanone	50	U
124-48-1-----	Dibromochloromethane	10	U
106-93-4-----	1,2-Dibromoethane	10	U
108-90-7-----	Chlorobenzene	10	U
630-20-6-----	1,1,1,2-Tetrachloroethane	10	U
100-41-4-----	Ethylbenzene	10	U
1330-20-7-----	Xylene (m,p)	3.4	J
95-47-6-----	Xylene (o)	10	U
1330-20-7-----	Xylene (total)	3.5	J
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
98-82-8-----	Isopropylbenzene	10	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	10	U
108-86-1-----	Bromobenzene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
96-18-4-----	1,2,3-Trichloropropane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-MEOH

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 115736

Matrix: (soil/water) SOIL

Lab Sample ID: 678706

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 678706E4

Level: (low/med) MED

Date Received: 08/12/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	10	U
103-65-1-----	n-Propylbenzene	10	U
95-49-8-----	2-Chlorotoluene	10	U
106-43-4-----	4-Chlorotoluene	10	U
108-67-8-----	1,3,5-Trimethylbenzene	10	U
98-06-6-----	tert-Butylbenzene	10	U
95-63-6-----	1,2,4-Trimethylbenzene	10	U
135-98-8-----	sec-Butylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
99-87-6-----	4-Isopropyltoluene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
104-51-8-----	n-Butylbenzene	10	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
91-20-3-----	Naphthalene	10	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U

October 10, 2006

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Building 203, Office 149
Argonne, IL 60439

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

Re: Laboratory Project No. 21005
Case: BA; SDG: 116345

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on September 15th, 2006. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 09/15/06 ETR No: 116345			
683318	BA-S-21823	09/14/06	LIQUID
683319	BA-S-21877	09/14/06	LIQUID
683320	BA-S-21819	09/14/06	LIQUID
683321	BA-S-21869	09/14/06	LIQUID
683321MS	BA-S-21869MS	09/14/06	LIQUID
683321MD	BA-S-21869MSD	09/14/06	LIQUID
683322	91306-MEOH BLANK	09/14/06	LIQUID
683323	BA-S-21875	09/14/06	LIQUID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. In order to accommodate field length limitations in processing the data summary forms, the laboratory did, in certain instances, abbreviate the sample identifier. The electronically formatted data provides for the full sample identifier.

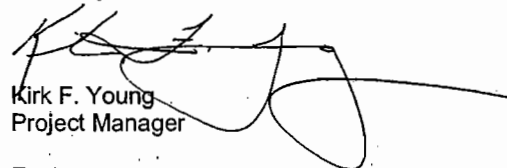
The samples were analyzed by Method 8260B, using a low-level calibration. In performing the analytical work, 500 microliters of the methanol extract were added to the 5 milliliter purge volume. Each of the analyses associated with the sample set did exhibit good internal standard performance. In general, the surrogate controls were recovered well in each of the analyses associated with the sample set. Two types of laboratory control sample analyses were performed through the course of the analytical work. One was performed to evaluate method performance, and one was performed with 500 microliters of methanol added to the purge volume in order to characterize the affect on the analytical process. The recovery of bromomethane was elevated in each of the laboratory control sample analyses that defined method performance (approximating 137 percent). The other target analytes were recovered well in each of those analyses. In the laboratory control sample analysis with methanol, several of the earlier eluting compounds did

exhibit lower recoveries, as did certain of the later eluting compounds. Most profoundly affected was the performance of methyl iodide, for which the derived recovery value was 8 percent. Chloroform and carbon tetrachloride were recovered well in each of the laboratory control sample analyses. Matrix spike and matrix spike duplicate analyses were performed on sample BA-S-21869. The performance of the target analytes in those analyses was consistent with their performance in the laboratory control sample analysis that included methanol. Chloroform and carbon tetrachloride were recovered well in both the matrix spike and the matrix spike duplicate analysis. The analysis of sample 91306-MEOH BLANK did yield a relatively high concentration of 2-butanone, and trace concentrations of toluene and m&p-xylene. The laboratory did associate the analysis of sample 91306-MEOH BLANK with each of the other field sample analyses in order to reference the blank association, and accordingly qualify the reported results. The instrument blanks that were analyzed in association with the samples were free of contamination.

If there are any questions regarding this submittal, please contact me at (802) 655-1203. The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,



Kirk F. Young
Project Manager

Enclosure
KFY/hsf

STL Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: Greater than 40% difference for detected concentrations between two GC columns. Unless otherwise specified the higher of the two values is reported on the Form I.
- CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

4037

[illegible]



Sample Data Summary Package - 8260B Volatile

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21819

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683320

Sample wt/vol: 10.3 (g/mL) G

Lab File ID: 68332012

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

75-71-8-----	Dichlorodifluoromethane	39	U
74-87-3-----	Chloromethane	39	U
75-01-4-----	Vinyl Chloride	39	U
74-83-9-----	Bromomethane	39	U
75-00-3-----	Chloroethane	39	U
75-69-4-----	Trichlorofluoromethane	39	U
107-02-8-----	Acrolein	48	U
75-35-4-----	1,1-Dichloroethene	9.7	U
76-13-1-----	Freon TF	9.7	U
67-64-1-----	Acetone	48	U
74-88-4-----	Methyl Iodide	9.7	U
75-15-0-----	Carbon Disulfide	9.7	U
107-05-1-----	Allyl Chloride	9.7	U
75-09-2-----	Methylene Chloride	9.7	U
107-13-1-----	Acrylonitrile	9.7	U
156-60-5-----	trans-1,2-Dichloroethene	9.7	U
1634-04-4-----	Methyl-t-Butyl Ether	9.7	U
540-59-0-----	1,2-Dichloroethene (total)	9.7	U
75-34-3-----	1,1-Dichloroethane	9.7	U
108-05-4-----	Vinyl Acetate	9.7	U
126-99-8-----	Chloroprene	9.7	U
594-20-7-----	2,2-Dichloropropane	9.7	U
156-59-2-----	cis-1,2-Dichloroethene	9.7	U
78-93-3-----	2-Butanone	95	B
107-12-0-----	Propionitrile	39	U
74-97-5-----	Bromochloromethane	9.7	U
126-98-7-----	Methacrylonitrile	9.7	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	9.7	U
71-55-6-----	1,1,1-Trichloroethane	9.7	U
56-23-5-----	Carbon Tetrachloride	9.7	U
563-58-6-----	1,1-Dichloropropene	9.7	U
71-43-2-----	Benzene	9.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21819

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683320

Sample wt/vol: 10.3 (g/mL) G

Lab File ID: 683320I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

78-83-1-----	Isobutyl Alcohol	490	U
107-06-2-----	1,2-Dichloroethane	9.7	U
79-01-6-----	Trichloroethene	9.7	U
78-87-5-----	1,2-Dichloropropane	9.7	U
74-95-3-----	Dibromomethane	9.7	U
80-62-6-----	Methyl Methacrylate	9.7	U
123-91-1-----	1,4-Dioxane	490	U
75-27-4-----	Bromodichloromethane	9.7	U
110-75-8-----	2-Chloroethyl Vinyl Ether	9.7	U
10061-01-5-----	cis-1,3-Dichloropropene	9.7	U
108-10-1-----	4-Methyl-2-pentanone	48	U
108-88-3-----	Toluene	2.0	BJ
10061-02-6-----	trans-1,3-Dichloropropene	9.7	U
97-63-2-----	Ethyl Methacrylate	9.7	U
79-00-5-----	1,1,2-Trichloroethane	9.7	U
127-18-4-----	Tetrachloroethene	9.7	U
142-28-9-----	1,3-Dichloropropane	9.7	U
591-78-6-----	2-Hexanone	48	U
124-48-1-----	Dibromochloromethane	9.7	U
106-93-4-----	1,2-Dibromoethane	9.7	U
108-90-7-----	Chlorobenzene	9.7	U
630-20-6-----	1,1,1,2-Tetrachloroethane	9.7	U
100-41-4-----	Ethylbenzene	9.7	U
1330-20-7-----	Xylene (m,p)	3.8	BJ
95-47-6-----	Xylene (o)	9.7	U
1330-20-7-----	Xylene (total)	3.9	J
100-42-5-----	Styrene	9.7	U
75-25-2-----	Bromoform	9.7	U
98-82-8-----	Isopropylbenzene	9.7	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	9.7	U
108-86-1-----	Bromobenzene	9.7	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9.7	U
96-18-4-----	1,2,3-Trichloropropane	9.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21819

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683320

Sample wt/vol: 10.3 (g/mL) G

Lab File ID: 683320I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	9.7	U
103-65-1-----	n-Propylbenzene	9.7	U
95-49-8-----	2-Chlorotoluene	9.7	U
106-43-4-----	4-Chlorotoluene	9.7	U
108-67-8-----	1,3,5-Trimethylbenzene	9.7	U
98-06-6-----	tert-Butylbenzene	9.7	U
95-63-6-----	1,2,4-Trimethylbenzene	9.7	U
135-98-8-----	sec-Butylbenzene	9.7	U
541-73-1-----	1,3-Dichlorobenzene	9.7	U
99-87-6-----	4-Isopropyltoluene	9.7	U
106-46-7-----	1,4-Dichlorobenzene	9.7	U
95-50-1-----	1,2-Dichlorobenzene	9.7	U
104-51-8-----	n-Butylbenzene	9.7	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	9.7	U
120-82-1-----	1,2,4-Trichlorobenzene	9.7	U
87-68-3-----	Hexachlorobutadiene	9.7	U
91-20-3-----	Naphthalene	9.7	U
87-61-6-----	1,2,3-Trichlorobenzene	9.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21823

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683318

Sample wt/vol: 11.0 (g/mL) G

Lab File ID: 683318I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume:

500(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	36	U
74-87-3-----	Chloromethane	36	U
75-01-4-----	Vinyl Chloride	36	U
74-83-9-----	Bromomethane	36	U
75-00-3-----	Chloroethane	36	U
75-69-4-----	Trichlorofluoromethane	36	U
107-02-8-----	Acrolein	45	U
75-35-4-----	1,1-Dichloroethene	9.1	U
76-13-1-----	Freon TF	9.1	U
67-64-1-----	Acetone	45	U
74-88-4-----	Methyl Iodide	9.1	U
75-15-0-----	Carbon Disulfide	9.1	U
107-05-1-----	Allyl Chloride	9.1	U
75-09-2-----	Methylene Chloride	9.1	U
107-13-1-----	Acrylonitrile	9.1	U
156-60-5-----	trans-1,2-Dichloroethene	9.1	U
1634-04-4-----	Methyl-t-Butyl Ether	9.1	U
540-59-0-----	1,2-Dichloroethene (total)	9.1	U
75-34-3-----	1,1-Dichloroethane	9.1	U
108-05-4-----	Vinyl Acetate	9.1	U
126-99-8-----	Chloroprene	9.1	U
594-20-7-----	2,2-Dichloropropane	9.1	U
156-59-2-----	cis-1,2-Dichloroethene	9.1	U
78-93-3-----	2-Butanone	80	B
107-12-0-----	Propionitrile	36	U
74-97-5-----	Bromochloromethane	9.1	U
126-98-7-----	Methacrylonitrile	9.1	U
109-99-9-----	Tetrahydrofuran	130	U
67-66-3-----	Chloroform	9.1	U
71-55-6-----	1,1,1-Trichloroethane	9.1	U
56-23-5-----	Carbon Tetrachloride	2.0	J
563-58-6-----	1,1-Dichloropropene	9.1	U
71-43-2-----	Benzene	9.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21823

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683318

Sample wt/vol: 11.0 (g/mL) G

Lab File ID: 683318I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	450	U
107-06-2-----	1,2-Dichloroethane	9.1	U
79-01-6-----	Trichloroethene	9.1	U
78-87-5-----	1,2-Dichloropropane	9.1	U
74-95-3-----	Dibromomethane	9.1	U
80-62-6-----	Methyl Methacrylate	9.1	U
123-91-1-----	1,4-Dioxane	450	U
75-27-4-----	Bromodichloromethane	9.1	U
110-75-8-----	2-Chloroethyl Vinyl Ether	9.1	U
10061-01-5-----	cis-1,3-Dichloropropene	9.1	U
108-10-1-----	4-Methyl-2-pentanone	45	U
108-88-3-----	Toluene	2.1	BJ
10061-02-6-----	trans-1,3-Dichloropropene	9.1	U
97-63-2-----	Ethyl Methacrylate	9.1	U
79-00-5-----	1,1,2-Trichloroethane	9.1	U
127-18-4-----	Tetrachloroethene	9.1	U
142-28-9-----	1,3-Dichloropropane	9.1	U
591-78-6-----	2-Hexanone	45	U
124-48-1-----	Dibromochloromethane	9.1	U
106-93-4-----	1,2-Dibromoethane	9.1	U
108-90-7-----	Chlorobenzene	9.1	U
630-20-6-----	1,1,1,2-Tetrachloroethane	9.1	U
100-41-4-----	Ethylbenzene	9.1	U
1330-20-7-----	Xylene (m,p)	3.2	BJ
95-47-6-----	Xylene (o)	1.9	J
1330-20-7-----	Xylene (total)	5.3	J
100-42-5-----	Styrene	9.1	U
75-25-2-----	Bromoform	9.1	U
98-82-8-----	Isopropylbenzene	9.1	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	9.1	U
108-86-1-----	Bromobenzene	9.1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9.1	U
96-18-4-----	1,2,3-Trichloropropane	9.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21823

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683318

Sample wt/vol: 11.0 (g/mL) G

Lab File ID: 683318I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6	trans-1,4-Dichloro-2-butene	9.1	U
103-65-1	n-Propylbenzene	9.1	U
95-49-8	2-Chlorotoluene	9.1	U
106-43-4	4-Chlorotoluene	9.1	U
108-67-8	1,3,5-Trimethylbenzene	9.1	U
98-06-6	tert-Butylbenzene	9.1	U
95-63-6	1,2,4-Trimethylbenzene	9.1	U
135-98-8	sec-Butylbenzene	9.1	U
541-73-1	1,3-Dichlorobenzene	9.1	U
99-87-6	4-Isopropyltoluene	9.1	U
106-46-7	1,4-Dichlorobenzene	9.1	U
95-50-1	1,2-Dichlorobenzene	9.1	U
104-51-8	n-Butylbenzene	9.1	U
96-12-8	1,2-Dibromo-3-Chloropropane	9.1	U
120-82-1	1,2,4-Trichlorobenzene	9.1	U
87-68-3	Hexachlorobutadiene	9.1	U
91-20-3	Naphthalene	9.1	U
87-61-6	1,2,3-Trichlorobenzene	9.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21869

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683321

Sample wt/vol: 12.0 (g/mL) G

Lab File ID: 683321

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/20/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	33	U
74-87-3-----	Chloromethane	33	U
75-01-4-----	Vinyl Chloride	33	U
74-83-9-----	Bromomethane	33	U
75-00-3-----	Chloroethane	33	U
75-69-4-----	Trichlorofluoromethane	33	U
107-02-8-----	Acrolein	41	U
75-35-4-----	1,1-Dichloroethene	8.3	U
76-13-1-----	Freon TF	8.3	U
67-64-1-----	Acetone	41	U
74-88-4-----	Methyl Iodide	8.3	U
75-15-0-----	Carbon Disulfide	8.3	U
107-05-1-----	Allyl Chloride	8.3	U
75-09-2-----	Methylene Chloride	8.3	U
107-13-1-----	Acrylonitrile	8.3	U
156-60-5-----	trans-1,2-Dichloroethene	8.3	U
1634-04-4-----	Methyl-t-Butyl Ether	8.3	U
540-59-0-----	1,2-Dichloroethene (total)	8.3	U
75-34-3-----	1,1-Dichloroethane	8.3	U
108-05-4-----	Vinyl Acetate	8.3	U
126-99-8-----	Chloroprene	8.3	U
594-20-7-----	2,2-Dichloropropane	8.3	U
156-59-2-----	cis-1,2-Dichloroethene	8.3	U
78-93-3-----	2-Butanone	93	B
107-12-0-----	Propionitrile	33	U
74-97-5-----	Bromochloromethane	8.3	U
126-98-7-----	Methacrylonitrile	8.3	U
109-99-9-----	Tetrahydrofuran	120	U
67-66-3-----	Chloroform	8.3	U
71-55-6-----	1,1,1-Trichloroethane	8.3	U
56-23-5-----	Carbon Tetrachloride	8.3	U
563-58-6-----	1,1-Dichloropropene	8.3	U
71-43-2-----	Benzene	8.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21869

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683321

Sample wt/vol: 12.0 (g/mL) G

Lab File ID: 683321

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/20/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	420	U
107-06-2-----	1,2-Dichloroethane	8.3	U
79-01-6-----	Trichloroethene	8.3	U
78-87-5-----	1,2-Dichloropropane	8.3	U
74-95-3-----	Dibromomethane	8.3	U
80-62-6-----	Methyl Methacrylate	8.3	U
123-91-1-----	1,4-Dioxane	420	U
75-27-4-----	Bromodichloromethane	8.3	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.3	U
10061-01-5-----	cis-1,3-Dichloropropene	8.3	U
108-10-1-----	4-Methyl-2-pentanone	41	U
108-88-3-----	Toluene	2.5	BJ
10061-02-6-----	trans-1,3-Dichloropropene	8.3	U
97-63-2-----	Ethyl Methacrylate	8.3	U
79-00-5-----	1,1,2-Trichloroethane	8.3	U
127-18-4-----	Tetrachloroethene	8.3	U
142-28-9-----	1,3-Dichloropropane	8.3	U
591-78-6-----	2-Hexanone	41	U
124-48-1-----	Dibromochloromethane	8.3	U
106-93-4-----	1,2-Dibromoethane	8.3	U
108-90-7-----	Chlorobenzene	8.3	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.3	U
100-41-4-----	Ethylbenzene	0.72	J
1330-20-7-----	Xylene (m,p)	4.1	BJ
95-47-6-----	Xylene (o)	1.8	J
1330-20-7-----	Xylene (total)	6.0	J
100-42-5-----	Styrene	8.3	U
75-25-2-----	Bromoform	8.3	U
98-82-8-----	Isopropylbenzene	8.3	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.3	U
108-86-1-----	Bromobenzene	8.3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.3	U
96-18-4-----	1,2,3-Trichloropropane	8.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21869

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683321

Sample wt/vol: 12.0 (g/mL) G

Lab File ID: 683321

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/20/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene	8.3	U
103-65-1-----	n-Propylbenzene	8.3	U
95-49-8-----	2-Chlorotoluene	8.3	U
106-43-4-----	4-Chlorotoluene	8.3	U
108-67-8-----	1,3,5-Trimethylbenzene	8.3	U
98-06-6-----	tert-Butylbenzene	8.3	U
95-63-6-----	1,2,4-Trimethylbenzene	8.3	U
135-98-8-----	sec-Butylbenzene	8.3	U
541-73-1-----	1,3-Dichlorobenzene	8.3	U
99-87-6-----	4-Isopropyltoluene	8.3	U
106-46-7-----	1,4-Dichlorobenzene	8.3	U
95-50-1-----	1,2-Dichlorobenzene	8.3	U
104-51-8-----	n-Butylbenzene	8.3	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	8.3	U
120-82-1-----	1,2,4-Trichlorobenzene	8.3	U
87-68-3-----	Hexachlorobutadiene	8.3	U
91-20-3-----	Naphthalene	8.3	U
87-61-6-----	1,2,3-Trichlorobenzene	8.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21875

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683323

Sample wt/vol: 9.3 (g/mL) G

Lab File ID: 683323I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	43	U
74-87-3-----	Chloromethane	43	U
75-01-4-----	Vinyl Chloride	43	U
74-83-9-----	Bromomethane	43	U
75-00-3-----	Chloroethane	43	U
75-69-4-----	Trichlorofluoromethane	43	U
107-02-8-----	Acrolein	53	U
75-35-4-----	1,1-Dichloroethene	11	U
76-13-1-----	Freon TF	11	U
67-64-1-----	Acetone	53	U
74-88-4-----	Methyl Iodide	11	U
75-15-0-----	Carbon Disulfide	11	U
107-05-1-----	Allyl Chloride	11	U
75-09-2-----	Methylene Chloride	11	U
107-13-1-----	Acrylonitrile	11	U
156-60-5-----	trans-1,2-Dichloroethene	11	U
1634-04-4-----	Methyl-t-Butyl Ether	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
75-34-3-----	1,1-Dichloroethane	11	U
108-05-4-----	Vinyl Acetate	11	U
126-99-8-----	Chloroprene	11	U
594-20-7-----	2,2-Dichloropropane	11	U
156-59-2-----	cis-1,2-Dichloroethene	11	U
78-93-3-----	2-Butanone	100	B
107-12-0-----	Propionitrile	43	U
74-97-5-----	Bromochloromethane	11	U
126-98-7-----	Methacrylonitrile	11	U
109-99-9-----	Tetrahydrofuran	150	U
67-66-3-----	Chloroform	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
563-58-6-----	1,1-Dichloropropene	11	U
71-43-2-----	Benzene	11	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21875

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683323

Sample wt/vol: 9.3 (g/mL) G

Lab File ID: 683323I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	540	U
107-06-2-----	1,2-Dichloroethane	11	U
79-01-6-----	Trichloroethene	11	U
78-87-5-----	1,2-Dichloropropane	11	U
74-95-3-----	Dibromomethane	11	U
80-62-6-----	Methyl Methacrylate	11	U
123-91-1-----	1,4-Dioxane	540	U
75-27-4-----	Bromodichloromethane	11	U
110-75-8-----	2-Chloroethyl Vinyl Ether	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
108-10-1-----	4-Methyl-2-pentanone	53	U
108-88-3-----	Toluene	2.4	BJ
10061-02-6-----	trans-1,3-Dichloropropene	11	U
97-63-2-----	Ethyl Methacrylate	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
127-18-4-----	Tetrachloroethene	11	U
142-28-9-----	1,3-Dichloropropane	11	U
591-78-6-----	2-Hexanone	53	U
124-48-1-----	Dibromochloromethane	11	U
106-93-4-----	1,2-Dibromoethane	11	U
108-90-7-----	Chlorobenzene	11	U
630-20-6-----	1,1,1,2-Tetrachloroethane	11	U
100-41-4-----	Ethylbenzene	11	U
1330-20-7-----	Xylene (m,p)	11	U
95-47-6-----	Xylene (o)	11	U
1330-20-7-----	Xylene (total)	11	U
100-42-5-----	Styrene	11	U
75-25-2-----	Bromoform	11	U
98-82-8-----	Isopropylbenzene	11	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	11	U
108-86-1-----	Bromobenzene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
96-18-4-----	1,2,3-Trichloropropane	11	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21875

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683323

Sample wt/vol: 9.3 (g/mL) G

Lab File ID: 683323I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene	11	U
103-65-1-----	n-Propylbenzene	11	U
95-49-8-----	2-Chlorotoluene	11	U
106-43-4-----	4-Chlorotoluene	11	U
108-67-8-----	1,3,5-Trimethylbenzene	11	U
98-06-6-----	tert-Butylbenzene	11	U
95-63-6-----	1,2,4-Trimethylbenzene	11	U
135-98-8-----	sec-Butylbenzene	11	U
541-73-1-----	1,3-Dichlorobenzene	11	U
99-87-6-----	4-Isopropyltoluene	11	U
106-46-7-----	1,4-Dichlorobenzene	11	U
95-50-1-----	1,2-Dichlorobenzene	11	U
104-51-8-----	n-Butylbenzene	11	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	11	U
120-82-1-----	1,2,4-Trichlorobenzene	6.4	J
87-68-3-----	Hexachlorobutadiene	2.4	J
91-20-3-----	Naphthalene	5.5	J
87-61-6-----	1,2,3-Trichlorobenzene	5.9	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21877

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683319

Sample wt/vol: 11.2 (g/mL) G

Lab File ID: 683319I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	36	U
74-87-3-----	Chloromethane	36	U
75-01-4-----	Vinyl Chloride	36	U
74-83-9-----	Bromomethane	36	U
75-00-3-----	Chloroethane	36	U
75-69-4-----	Trichlorofluoromethane	36	U
107-02-8-----	Acrolein	44	U
75-35-4-----	1,1-Dichloroethene	8.9	U
76-13-1-----	Freon TF	8.9	U
67-64-1-----	Acetone	44	U
74-88-4-----	Methyl Iodide	8.9	U
75-15-0-----	Carbon Disulfide	8.9	U
107-05-1-----	Allyl Chloride	8.9	U
75-09-2-----	Methylene Chloride	8.9	U
107-13-1-----	Acrylonitrile	8.9	U
156-60-5-----	trans-1,2-Dichloroethene	8.9	U
1634-04-4-----	Methyl-t-Butyl Ether	8.9	U
540-59-0-----	1,2-Dichloroethene (total)	8.9	U
75-34-3-----	1,1-Dichloroethane	8.9	U
108-05-4-----	Vinyl Acetate	8.9	U
126-99-8-----	Chloroprene	8.9	U
594-20-7-----	2,2-Dichloropropane	8.9	U
156-59-2-----	cis-1,2-Dichloroethene	8.9	U
78-93-3-----	2-Butanone	110	B
107-12-0-----	Propionitrile	36	U
74-97-5-----	Bromochloromethane	8.9	U
126-98-7-----	Methacrylonitrile	8.9	U
109-99-9-----	Tetrahydrofuran	120	U
67-66-3-----	Chloroform	8.9	U
71-55-6-----	1,1,1-Trichloroethane	8.9	U
56-23-5-----	Carbon Tetrachloride	8.9	U
563-58-6-----	1,1-Dichloropropene	8.9	U
71-43-2-----	Benzene	8.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21877

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683319

Sample wt/vol: 11.2 (g/mL) G

Lab File ID: 683319I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 500(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	450	U
107-06-2-----	1,2-Dichloroethane	8.9	U
79-01-6-----	Trichloroethene	8.9	U
78-87-5-----	1,2-Dichloropropane	8.9	U
74-95-3-----	Dibromomethane	8.9	U
80-62-6-----	Methyl Methacrylate	8.9	U
123-91-1-----	1,4-Dioxane	450	U
75-27-4-----	Bromodichloromethane	8.9	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.9	U
10061-01-5-----	cis-1,3-Dichloropropene	8.9	U
108-10-1-----	4-Methyl-2-pentanone	44	U
108-88-3-----	Toluene	2.6	BJ
10061-02-6-----	trans-1,3-Dichloropropene	8.9	U
97-63-2-----	Ethyl Methacrylate	8.9	U
79-00-5-----	1,1,2-Trichloroethane	8.9	U
127-18-4-----	Tetrachloroethene	8.9	U
142-28-9-----	1,3-Dichloropropane	8.9	U
591-78-6-----	2-Hexanone	44	U
124-48-1-----	Dibromochloromethane	8.9	U
106-93-4-----	1,2-Dibromoethane	8.9	U
108-90-7-----	Chlorobenzene	8.9	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.9	U
100-41-4-----	Ethylbenzene	8.9	U
1330-20-7-----	Xylene (m,p)	3.8	BJ
95-47-6-----	Xylene (o)	1.8	J
1330-20-7-----	Xylene (total)	5.8	J
100-42-5-----	Styrene	8.9	U
75-25-2-----	Bromoform	8.9	U
98-82-8-----	Isopropylbenzene	8.9	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.9	U
108-86-1-----	Bromobenzene	8.9	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.9	U
96-18-4-----	1,2,3-Trichloropropane	8.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21877

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683319

Sample wt/vol: 11.2 (g/mL) G

Lab File ID: 683319I2

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	8.9	U
103-65-1-----	n-Propylbenzene	8.9	U
95-49-8-----	2-Chlorotoluene	8.9	U
106-43-4-----	4-Chlorotoluene	8.9	U
108-67-8-----	1,3,5-Trimethylbenzene	8.9	U
98-06-6-----	tert-Butylbenzene	8.9	U
95-63-6-----	1,2,4-Trimethylbenzene	8.9	U
135-98-8-----	sec-Butylbenzene	8.9	U
541-73-1-----	1,3-Dichlorobenzene	8.9	U
99-87-6-----	4-Isopropyltoluene	8.9	U
106-46-7-----	1,4-Dichlorobenzene	8.9	U
95-50-1-----	1,2-Dichlorobenzene	8.9	U
104-51-8-----	n-Butylbenzene	8.9	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	8.9	U
120-82-1-----	1,2,4-Trichlorobenzene	8.9	U
87-68-3-----	Hexachlorobutadiene	8.9	U
91-20-3-----	Naphthalene	8.9	U
87-61-6-----	1,2,3-Trichlorobenzene	8.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

91306MEOHBLK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683322

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 683322I3

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	40	U
74-87-3-----	Chloromethane	40	U
75-01-4-----	Vinyl Chloride	40	U
74-83-9-----	Bromomethane	40	U
75-00-3-----	Chloroethane	40	U
75-69-4-----	Trichlorofluoromethane	40	U
107-02-8-----	Acrolein	50	U
75-35-4-----	1,1-Dichloroethene	10	U
76-13-1-----	Freon TF	10	U
67-64-1-----	Acetone	50	U
74-88-4-----	Methyl Iodide	10	U
75-15-0-----	Carbon Disulfide	10	U
107-05-1-----	Allyl Chloride	10	U
75-09-2-----	Methylene Chloride	10	U
107-13-1-----	Acrylonitrile	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl-t-Butyl Ether	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
75-34-3-----	1,1-Dichloroethane	10	U
108-05-4-----	Vinyl Acetate	10	U
126-99-8-----	Chloroprene	10	U
594-20-7-----	2,2-Dichloropropane	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	130	
107-12-0-----	Propionitrile	40	U
74-97-5-----	Bromochloromethane	10	U
126-98-7-----	Methacrylonitrile	10	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
563-58-6-----	1,1-Dichloropropene	10	U
71-43-2-----	Benzene	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

91306MEOHBLK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683322

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 683322I3

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

78-83-1-----	Isobutyl Alcohol	500	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
74-95-3-----	Dibromomethane	10	U
80-62-6-----	Methyl Methacrylate	10	U
123-91-1-----	1,4-Dioxane	500	U
75-27-4-----	Bromodichloromethane	10	U
110-75-8-----	2-Chloroethyl Vinyl Ether	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	50	U
108-88-3-----	Toluene	2.6	J
10061-02-6-----	trans-1,3-Dichloropropene	10	U
97-63-2-----	Ethyl Methacrylate	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
142-28-9-----	1,3-Dichloropropane	10	U
591-78-6-----	2-Hexanone	50	U
124-48-1-----	Dibromochloromethane	10	U
106-93-4-----	1,2-Dibromoethane	10	U
108-90-7-----	Chlorobenzene	10	U
630-20-6-----	1,1,1,2-Tetrachloroethane	10	U
100-41-4-----	Ethylbenzene	10	U
1330-20-7-----	Xylene (m,p)	3.9	J
95-47-6-----	Xylene (o)	10	U
1330-20-7-----	Xylene (total)	4.0	J
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
98-82-8-----	Isopropylbenzene	10	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	10	U
108-86-1-----	Bromobenzene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
96-18-4-----	1,2,3-Trichloropropane	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

91306MEOHBLK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BA

SAS No.:

SDG No.: 116345

Matrix: (soil/water) SOIL

Lab Sample ID: 683322

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 683322I3

Level: (low/med) MED

Date Received: 09/15/06

% Moisture: not dec. _____

Date Analyzed: 09/21/06

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	10	U
103-65-1-----	n-Propylbenzene	10	U
95-49-8-----	2-Chlorotoluene	10	U
106-43-4-----	4-Chlorotoluene	10	U
108-67-8-----	1,3,5-Trimethylbenzene	10	U
98-06-6-----	tert-Butylbenzene	10	U
95-63-6-----	1,2,4-Trimethylbenzene	10	U
135-98-8-----	sec-Butylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
99-87-6-----	4-Isopropyltoluene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
104-51-8-----	n-Butylbenzene	10	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
91-20-3-----	Naphthalene	10	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U

March 28, 2007



STL

Mr. Clyde Dennis
Argonne National Laboratory
9700 S. Cass Avenue
Building 203, Office 149
Argonne, IL 60439

STL Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403

Tel: 802 660 1990 Fax: 802 660 1919
www.stl-inc.com

Re: Laboratory Project No. 27000
Case: BARNES; SDG: 119076

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on March 14th, 2007. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 03/14/07 ETR No: 119076			
703262	BA-S-21958 (10A)	03/10/07	LIQUID
703263	BA-S-21934 (20A)	03/10/07	LIQUID
703264	BA-S-21851 (10A)	03/10/07	LIQUID
703265	BA-S-21942 (20A)	03/10/07	LIQUID
703266	BA-S-21976 (10A)	03/10/07	LIQUID
703267	BA-S-21963 (20A)	03/10/07	LIQUID
703268	BA-S-17283 (9A)	03/10/07	LIQUID
703269	BA-S-17279 (1A)	03/10/07	LIQUID
703270	BA-S-17275 (10A)	03/10/07	LIQUID
703271	BA-S-BLANK	03/10/07	LIQUID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. In order to accommodate field length limitations in processing the data summary forms, the laboratory did, in certain instances, abbreviate the sample identifier. The electronically formatted data provides for the full sample identifier.

The samples were analyzed by Method 8260B, using a low-level calibration. In performing the analytical work, 500 microliters of the methanol extract were added to the 5 milliliter purge volume. Each of the analyses associated with the sample set did exhibit good internal standard performance. The surrogate controls were recovered well in each of the analyses associated with the sample set. Two types of laboratory control sample analyses were performed in the course of the analytical work. One was performed to evaluate method performance, and one was performed with 500 microliters of methanol added to the purge volume in order to characterize the affect on the analytical process. The recovery of vinyl acetate was elevated in the laboratory control sample analysis that defined method performance (approximating 130 percent). The other target analytes were recovered well in that analysis. In the laboratory control sample analysis with methanol,

several of the earlier eluting compounds did exhibit lower recoveries, as did certain of the later eluting compounds. Most profoundly affected was the performance of acrolien, methyl iodide, and propionitrile for which the derived recovery value approximated 10 percent. Chloroform and carbon tetrachloride were recovered well in each of the laboratory control sample analyses. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. The analysis of sample BA-S-BLANK was free of contamination. The laboratory did associate the analysis of sample BA-S-BLANK with each of the other field sample analyses in order to reference the blank association, and accordingly qualify the reported results. The instrument blank that was analyzed in association with the samples was free of contamination.

If there are any questions regarding this submittal, please contact me at (802) 655-1203. The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,



Kirk F. Young
Project Manager

Enclosure
KFY/hsf

STL Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: Greater than 40% difference for detected concentrations between two GC columns. Unless otherwise specified the higher of the two values is reported on the Form I.

CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

[illegible]



STL

Sample Data Summary Package - 8260B Volatile

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17275 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703270

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: 703270

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	8.8	U
74-87-3-----	Chloromethane	8.8	U
75-01-4-----	Vinyl Chloride	8.8	U
74-83-9-----	Bromomethane	8.8	U
75-00-3-----	Chloroethane	8.8	U
75-69-4-----	Trichlorofluoromethane	8.8	U
107-02-8-----	Acrolein	44	U
75-35-4-----	1,1-Dichloroethene	8.8	U
76-13-1-----	Freon TF	8.8	U
67-64-1-----	Acetone	44	U
74-88-4-----	Methyl Iodide	8.8	U
75-15-0-----	Carbon Disulfide	8.8	U
107-05-1-----	Allyl Chloride	8.8	U
75-09-2-----	Methylene Chloride	8.8	U
107-13-1-----	Acrylonitrile	8.8	U
156-60-5-----	trans-1,2-Dichloroethene	8.8	U
1634-04-4-----	Methyl-t-Butyl Ether	8.8	U
540-59-0-----	1,2-Dichloroethene (total)	8.8	U
75-34-3-----	1,1-Dichloroethane	8.8	U
108-05-4-----	Vinyl Acetate	8.8	U
126-99-8-----	Chloroprene	8.8	U
594-20-7-----	2,2-Dichloropropane	8.8	U
156-59-2-----	cis-1,2-Dichloroethene	8.8	U
78-93-3-----	2-Butanone	73	
107-12-0-----	Propionitrile	35	U
74-97-5-----	Bromochloromethane	8.8	U
126-98-7-----	Methacrylonitrile	8.8	U
109-99-9-----	Tetrahydrofuran	120	U
67-66-3-----	Chloroform	8.8	U
71-55-6-----	1,1,1-Trichloroethane	8.8	U
56-23-5-----	Carbon Tetrachloride	8.8	U
563-58-6-----	1,1-Dichloropropene	8.8	U
71-43-2-----	Benzene	8.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17275 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703270

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: 703270

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	440	U
107-06-2-----	1,2-Dichloroethane	8.8	U
79-01-6-----	Trichloroethene	8.8	U
78-87-5-----	1,2-Dichloropropane	8.8	U
74-95-3-----	Dibromomethane	8.8	U
80-62-6-----	Methyl Methacrylate	8.8	U
123-91-1-----	1,4-Dioxane	440	U
75-27-4-----	Bromodichloromethane	8.8	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.8	U
10061-01-5-----	cis-1,3-Dichloropropene	8.8	U
108-10-1-----	4-Methyl-2-pentanone	44	U
108-88-3-----	Toluene	8.8	U
10061-02-6-----	trans-1,3-Dichloropropene	8.8	U
97-63-2-----	Ethyl Methacrylate	8.8	U
79-00-5-----	1,1,2-Trichloroethane	8.8	U
127-18-4-----	Tetrachloroethene	1.8	J
142-28-9-----	1,3-Dichloropropane	8.8	U
591-78-6-----	2-Hexanone	44	U
124-48-1-----	Dibromochloromethane	8.8	U
106-93-4-----	1,2-Dibromoethane	8.8	U
108-90-7-----	Chlorobenzene	8.8	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.8	U
100-41-4-----	Ethylbenzene	8.8	U
1330-20-7-----	Xylene (m,p)	3.4	J
95-47-6-----	Xylene (o)	1.6	J
1330-20-7-----	Xylene (total)	5.2	J
100-42-5-----	Styrene	8.8	U
75-25-2-----	Bromoform	8.8	U
98-82-8-----	Isopropylbenzene	8.8	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.8	U
108-86-1-----	Bromobenzene	8.8	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.8	U
96-18-4-----	1,2,3-Trichloropropane	8.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17275 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703270

Sample wt/vol: 11.4 (g/mL) G

Lab File ID: 703270

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	8.8	U
103-65-1-----	n-Propylbenzene	8.8	U
95-49-8-----	2-Chlorotoluene	8.8	U
106-43-4-----	4-Chlorotoluene	8.8	U
108-67-8-----	1,3,5-Trimethylbenzene	8.8	U
98-06-6-----	tert-Butylbenzene	8.8	U
95-63-6-----	1,2,4-Trimethylbenzene	8.8	U
135-98-8-----	sec-Butylbenzene	8.8	U
541-73-1-----	1,3-Dichlorobenzene	8.8	U
99-87-6-----	4-Isopropyltoluene	8.8	U
106-46-7-----	1,4-Dichlorobenzene	8.8	U
95-50-1-----	1,2-Dichlorobenzene	8.8	U
104-51-8-----	n-Butylbenzene	8.8	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	8.8	U
120-82-1-----	1,2,4-Trichlorobenzene	8.8	U
87-68-3-----	Hexachlorobutadiene	8.8	U
91-20-3-----	Naphthalene	8.8	U
87-61-6-----	1,2,3-Trichlorobenzene	8.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17279 1A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703269

Sample wt/vol: 10.8 (g/mL) G

Lab File ID: 703269

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	9.2	U
74-87-3	Chloromethane	9.2	U
75-01-4	Vinyl Chloride	9.2	U
74-83-9	Bromomethane	9.2	U
75-00-3	Chloroethane	9.2	U
75-69-4	Trichlorofluoromethane	9.2	U
107-02-8	Acrolein	46	U
75-35-4	1,1-Dichloroethene	9.2	U
76-13-1	Freon TF	9.2	U
67-64-1	Acetone	46	U
74-88-4	Methyl Iodide	9.2	U
75-15-0	Carbon Disulfide	9.2	U
107-05-1	Allyl Chloride	9.2	U
75-09-2	Methylene Chloride	9.2	U
107-13-1	Acrylonitrile	9.2	U
156-60-5	trans-1,2-Dichloroethene	9.2	U
1634-04-4	Methyl-t-Butyl Ether	9.2	U
540-59-0	1,2-Dichloroethene (total)	9.2	U
75-34-3	1,1-Dichloroethane	9.2	U
108-05-4	Vinyl Acetate	9.2	U
126-99-8	Chloroprene	9.2	U
594-20-7	2,2-Dichloropropane	9.2	U
156-59-2	cis-1,2-Dichloroethene	9.2	U
78-93-3	2-Butanone	54	
107-12-0	Propionitrile	37	U
74-97-5	Bromochloromethane	9.2	U
126-98-7	Methacrylonitrile	9.2	U
109-99-9	Tetrahydrofuran	130	U
67-66-3	Chloroform	9.2	U
71-55-6	1,1,1-Trichloroethane	9.2	U
56-23-5	Carbon Tetrachloride	9.2	U
563-58-6	1,1-Dichloropropene	9.2	U
71-43-2	Benzene	9.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17279 1A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703269

Sample wt/vol: 10.8 (g/mL) G

Lab File ID: 703269

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	460	U
107-06-2-----	1,2-Dichloroethane	9.2	U
79-01-6-----	Trichloroethene	9.2	U
78-87-5-----	1,2-Dichloropropane	9.2	U
74-95-3-----	Dibromomethane	9.2	U
80-62-6-----	Methyl Methacrylate	9.2	U
123-91-1-----	1,4-Dioxane	460	U
75-27-4-----	Bromodichloromethane	9.2	U
110-75-8-----	2-Chloroethyl Vinyl Ether	9.2	U
10061-01-5-----	cis-1,3-Dichloropropene	9.2	U
108-10-1-----	4-Methyl-2-pentanone	46	U
108-88-3-----	Toluene	1.9	J
10061-02-6-----	trans-1,3-Dichloropropene	9.2	U
97-63-2-----	Ethyl Methacrylate	9.2	U
79-00-5-----	1,1,2-Trichloroethane	9.2	U
127-18-4-----	Tetrachloroethene	9.2	U
142-28-9-----	1,3-Dichloropropane	9.2	U
591-78-6-----	2-Hexanone	46	U
124-48-1-----	Dibromochloromethane	9.2	U
106-93-4-----	1,2-Dibromoethane	9.2	U
108-90-7-----	Chlorobenzene	9.2	U
630-20-6-----	1,1,1,2-Tetrachloroethane	9.2	U
100-41-4-----	Ethylbenzene	9.2	U
1330-20-7-----	Xylene (m,p)	3.7	J
95-47-6-----	Xylene (o)	1.7	J
1330-20-7-----	Xylene (total)	5.5	J
100-42-5-----	Styrene	9.2	U
75-25-2-----	Bromoform	9.2	U
98-82-8-----	Isopropylbenzene	9.2	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	9.2	U
108-86-1-----	Bromobenzene	9.2	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9.2	U
96-18-4-----	1,2,3-Trichloropropane	9.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17279 1A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703269

Sample wt/vol: 10.8 (g/mL) G

Lab File ID: 703269

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

110-57-6-----	trans-1,4-Dichloro-2-butene_	9.2	U
103-65-1-----	n-Propylbenzene	9.2	U
95-49-8-----	2-Chlorotoluene	9.2	U
106-43-4-----	4-Chlorotoluene	9.2	U
108-67-8-----	1,3,5-Trimethylbenzene	9.2	U
98-06-6-----	tert-Butylbenzene	9.2	U
95-63-6-----	1,2,4-Trimethylbenzene	9.2	U
135-98-8-----	sec-Butylbenzene	9.2	U
541-73-1-----	1,3-Dichlorobenzene	9.2	U
99-87-6-----	4-Isopropyltoluene	9.2	U
106-46-7-----	1,4-Dichlorobenzene	9.2	U
95-50-1-----	1,2-Dichlorobenzene	9.2	U
104-51-8-----	n-Butylbenzene	9.2	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	9.2	U
120-82-1-----	1,2,4-Trichlorobenzene	9.2	U
87-68-3-----	Hexachlorobutadiene	9.2	U
91-20-3-----	Naphthalene	9.2	U
87-61-6-----	1,2,3-Trichlorobenzene	9.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17283 9A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703268

Sample wt/vol: 13.5 (g/mL) G

Lab File ID: 703268

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.4	U
74-87-3-----	Chloromethane	7.4	U
75-01-4-----	Vinyl Chloride	7.4	U
74-83-9-----	Bromomethane	7.4	U
75-00-3-----	Chloroethane	7.4	U
75-69-4-----	Trichlorofluoromethane	7.4	U
107-02-8-----	Acrolein	37	U
75-35-4-----	1,1-Dichloroethene	7.4	U
76-13-1-----	Freon TF	7.4	U
67-64-1-----	Acetone	37	U
74-88-4-----	Methyl Iodide	7.4	U
75-15-0-----	Carbon Disulfide	7.4	U
107-05-1-----	Allyl Chloride	7.4	U
75-09-2-----	Methylene Chloride	7.4	U
107-13-1-----	Acrylonitrile	7.4	U
156-60-5-----	trans-1,2-Dichloroethene	7.4	U
1634-04-4-----	Methyl-t-Butyl Ether	7.4	U
540-59-0-----	1,2-Dichloroethene (total)	7.4	U
75-34-3-----	1,1-Dichloroethane	7.4	U
108-05-4-----	Vinyl Acetate	7.4	U
126-99-8-----	Chloroprene	7.4	U
594-20-7-----	2,2-Dichloropropane	7.4	U
156-59-2-----	cis-1,2-Dichloroethene	7.4	U
78-93-3-----	2-Butanone	36	J
107-12-0-----	Propionitrile	30	U
74-97-5-----	Bromochloromethane	7.4	U
126-98-7-----	Methacrylonitrile	7.4	U
109-99-9-----	Tetrahydrofuran	100	U
67-66-3-----	Chloroform	7.4	U
71-55-6-----	1,1,1-Trichloroethane	7.4	U
56-23-5-----	Carbon Tetrachloride	7.4	U
563-58-6-----	1,1-Dichloropropene	7.4	U
71-43-2-----	Benzene	7.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17283 9A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703268

Sample wt/vol: 13.5 (g/mL) G

Lab File ID: 703268

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

78-83-1-----	Isobutyl Alcohol	370	U
107-06-2-----	1,2-Dichloroethane	7.4	U
79-01-6-----	Trichloroethene	7.4	U
78-87-5-----	1,2-Dichloropropane	7.4	U
74-95-3-----	Dibromomethane	7.4	U
80-62-6-----	Methyl Methacrylate	7.4	U
123-91-1-----	1,4-Dioxane	370	U
75-27-4-----	Bromodichloromethane	7.4	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.4	U
10061-01-5-----	cis-1,3-Dichloropropene	7.4	U
108-10-1-----	4-Methyl-2-pentanone	37	U
108-88-3-----	Toluene	7.4	U
10061-02-6-----	trans-1,3-Dichloropropene	7.4	U
97-63-2-----	Ethyl Methacrylate	7.4	U
79-00-5-----	1,1,2-Trichloroethane	7.4	U
127-18-4-----	Tetrachloroethene	7.4	U
142-28-9-----	1,3-Dichloropropane	7.4	U
591-78-6-----	2-Hexanone	37	U
124-48-1-----	Dibromochloromethane	7.4	U
106-93-4-----	1,2-Dibromoethane	7.4	U
108-90-7-----	Chlorobenzene	7.4	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.4	U
100-41-4-----	Ethylbenzene	7.4	U
1330-20-7-----	Xylene (m,p)	2.4	J
95-47-6-----	Xylene (o)	1.3	J
1330-20-7-----	Xylene (total)	3.9	J
100-42-5-----	Styrene	7.4	U
75-25-2-----	Bromoform	7.4	U
98-82-8-----	Isopropylbenzene	7.4	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.4	U
108-86-1-----	Bromobenzene	7.4	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.4	U
96-18-4-----	1,2,3-Trichloropropane	7.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-17283 9A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703268

Sample wt/vol: 13.5 (g/mL) G

Lab File ID: 703268

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

110-57-6-----trans-1,4-Dichloro-2-butene_	7.4	U
103-65-1-----n-Propylbenzene	7.4	U
95-49-8-----2-Chlorotoluene	7.4	U
106-43-4-----4-Chlorotoluene	7.4	U
108-67-8-----1,3,5-Trimethylbenzene	7.4	U
98-06-6-----tert-Butylbenzene	7.4	U
95-63-6-----1,2,4-Trimethylbenzene	7.4	U
135-98-8-----sec-Butylbenzene	7.4	U
541-73-1-----1,3-Dichlorobenzene	7.4	U
99-87-6-----4-Isopropyltoluene	7.4	U
106-46-7-----1,4-Dichlorobenzene	7.4	U
95-50-1-----1,2-Dichlorobenzene	7.4	U
104-51-8-----n-Butylbenzene	7.4	U
96-12-8-----1,2-Dibromo-3-Chloropropane	7.4	U
120-82-1-----1,2,4-Trichlorobenzene	7.4	U
87-68-3-----Hexachlorobutadiene	7.4	U
91-20-3-----Naphthalene	7.4	U
87-61-6-----1,2,3-Trichlorobenzene	7.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21851 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703264

Sample wt/vol: 12.4 (g/mL) G

Lab File ID: 703264

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

75-71-8-----	Dichlorodifluoromethane	8.0	U
74-87-3-----	Chloromethane	8.0	U
75-01-4-----	Vinyl Chloride	8.0	U
74-83-9-----	Bromomethane	8.0	U
75-00-3-----	Chloroethane	8.0	U
75-69-4-----	Trichlorofluoromethane	8.0	U
107-02-8-----	Acrolein	40	U
75-35-4-----	1,1-Dichloroethene	8.0	U
76-13-1-----	Freon TF	8.0	U
67-64-1-----	Acetone	40	U
74-88-4-----	Methyl Iodide	8.0	U
75-15-0-----	Carbon Disulfide	8.0	U
107-05-1-----	Allyl Chloride	8.0	U
75-09-2-----	Methylene Chloride	8.0	U
107-13-1-----	Acrylonitrile	8.0	U
156-60-5-----	trans-1,2-Dichloroethene	8.0	U
1634-04-4-----	Methyl-t-Butyl Ether	8.0	U
540-59-0-----	1,2-Dichloroethene (total)	8.0	U
75-34-3-----	1,1-Dichloroethane	8.0	U
108-05-4-----	Vinyl Acetate	8.0	U
126-99-8-----	Chloroprene	8.0	U
594-20-7-----	2,2-Dichloropropane	8.0	U
156-59-2-----	cis-1,2-Dichloroethene	8.0	U
78-93-3-----	2-Butanone	92	
107-12-0-----	Propionitrile	32	U
74-97-5-----	Bromochloromethane	8.0	U
126-98-7-----	Methacrylonitrile	8.0	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	8.0	U
71-55-6-----	1,1,1-Trichloroethane	8.0	U
56-23-5-----	Carbon Tetrachloride	8.0	U
563-58-6-----	1,1-Dichloropropene	8.0	U
71-43-2-----	Benzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21851 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703264

Sample wt/vol: 12.4 (g/mL) G

Lab File ID: 703264

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	400	U
107-06-2-----	1,2-Dichloroethane	8.0	U
79-01-6-----	Trichloroethene	8.0	U
78-87-5-----	1,2-Dichloropropane	8.0	U
74-95-3-----	Dibromomethane	8.0	U
80-62-6-----	Methyl Methacrylate	8.0	U
123-91-1-----	1,4-Dioxane	400	U
75-27-4-----	Bromodichloromethane	8.0	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.0	U
10061-01-5-----	cis-1,3-Dichloropropene	8.0	U
108-10-1-----	4-Methyl-2-pentanone	40	U
108-88-3-----	Toluene	2.9	J
10061-02-6-----	trans-1,3-Dichloropropene	8.0	U
97-63-2-----	Ethyl Methacrylate	8.0	U
79-00-5-----	1,1,2-Trichloroethane	8.0	U
127-18-4-----	Tetrachloroethene	8.0	U
142-28-9-----	1,3-Dichloropropane	8.0	U
591-78-6-----	2-Hexanone	40	U
124-48-1-----	Dibromochloromethane	8.0	U
106-93-4-----	1,2-Dibromoethane	8.0	U
108-90-7-----	Chlorobenzene	8.0	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.0	U
100-41-4-----	Ethylbenzene	8.0	U
1330-20-7-----	Xylene (m,p)	5.0	J
95-47-6-----	Xylene (o)	3.1	J
1330-20-7-----	Xylene (total)	8.3	
100-42-5-----	Styrene	8.0	U
75-25-2-----	Bromoform	8.0	U
98-82-8-----	Isopropylbenzene	8.0	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.0	U
108-86-1-----	Bromobenzene	8.0	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.0	U
96-18-4-----	1,2,3-Trichloropropane	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21851 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703264

Sample wt/vol: 12.4 (g/mL) G

Lab File ID: 703264

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
110-57-6	trans-1,4-Dichloro-2-butene	8.0	U
103-65-1	n-Propylbenzene	8.0	U
95-49-8	2-Chlorotoluene	8.0	U
106-43-4	4-Chlorotoluene	8.0	U
108-67-8	1,3,5-Trimethylbenzene	8.0	U
98-06-6	tert-Butylbenzene	8.0	U
95-63-6	1,2,4-Trimethylbenzene	1.7	J
135-98-8	sec-Butylbenzene	8.0	U
541-73-1	1,3-Dichlorobenzene	8.0	U
99-87-6	4-Isopropyltoluene	8.0	U
106-46-7	1,4-Dichlorobenzene	8.0	U
95-50-1	1,2-Dichlorobenzene	8.0	U
104-51-8	n-Butylbenzene	8.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	8.0	U
120-82-1	1,2,4-Trichlorobenzene	8.0	U
87-68-3	Hexachlorobutadiene	8.0	U
91-20-3	Naphthalene	1.7	J
87-61-6	1,2,3-Trichlorobenzene	8.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21934 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703263

Sample wt/vol: 12.2 (g/mL) G

Lab File ID: 703263

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	8.2	U
74-87-3-----	Chloromethane	8.2	U
75-01-4-----	Vinyl Chloride	8.2	U
74-83-9-----	Bromomethane	8.2	U
75-00-3-----	Chloroethane	8.2	U
75-69-4-----	Trichlorofluoromethane	8.2	U
107-02-8-----	Acrolein	41	U
75-35-4-----	1,1-Dichloroethene	8.2	U
76-13-1-----	Freon TF	8.2	U
67-64-1-----	Acetone	41	U
74-88-4-----	Methyl Iodide	8.2	U
75-15-0-----	Carbon Disulfide	8.2	U
107-05-1-----	Allyl Chloride	8.2	U
75-09-2-----	Methylene Chloride	8.2	U
107-13-1-----	Acrylonitrile	8.2	U
156-60-5-----	trans-1,2-Dichloroethene	8.2	U
1634-04-4-----	Methyl-t-Butyl Ether	8.2	U
540-59-0-----	1,2-Dichloroethene (total)	8.2	U
75-34-3-----	1,1-Dichloroethane	8.2	U
108-05-4-----	Vinyl Acetate	8.2	U
126-99-8-----	Chloroprene	8.2	U
594-20-7-----	2,2-Dichloropropane	8.2	U
156-59-2-----	cis-1,2-Dichloroethene	8.2	U
78-93-3-----	2-Butanone	56	
107-12-0-----	Propionitrile	33	U
74-97-5-----	Bromochloromethane	8.2	U
126-98-7-----	Methacrylonitrile	8.2	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	8.2	U
71-55-6-----	1,1,1-Trichloroethane	8.2	U
56-23-5-----	Carbon Tetrachloride	8.2	U
563-58-6-----	1,1-Dichloropropene	8.2	U
71-43-2-----	Benzene	8.2	U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21934 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703263

Sample wt/vol: 12.2 (g/mL) G

Lab File ID: 703263

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	410	U
107-06-2-----	1,2-Dichloroethane	8.2	U
79-01-6-----	Trichloroethene	8.2	U
78-87-5-----	1,2-Dichloropropane	8.2	U
74-95-3-----	Dibromomethane	8.2	U
80-62-6-----	Methyl Methacrylate	8.2	U
123-91-1-----	1,4-Dioxane	410	U
75-27-4-----	Bromodichloromethane	8.2	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.2	U
10061-01-5-----	cis-1,3-Dichloropropene	8.2	U
108-10-1-----	4-Methyl-2-pentanone	41	U
108-88-3-----	Toluene	1.9	J
10061-02-6-----	trans-1,3-Dichloropropene	8.2	U
97-63-2-----	Ethyl Methacrylate	8.2	U
79-00-5-----	1,1,2-Trichloroethane	8.2	U
127-18-4-----	Tetrachloroethene	8.2	U
142-28-9-----	1,3-Dichloropropane	8.2	U
591-78-6-----	2-Hexanone	41	U
124-48-1-----	Dibromochloromethane	8.2	U
106-93-4-----	1,2-Dibromoethane	8.2	U
108-90-7-----	Chlorobenzene	8.2	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.2	U
100-41-4-----	Ethylbenzene	8.2	U
1330-20-7-----	Xylene (m,p)	3.0	J
95-47-6-----	Xylene (o)	1.5	J
1330-20-7-----	Xylene (total)	4.7	J
100-42-5-----	Styrene	8.2	U
75-25-2-----	Bromoform	8.2	U
98-82-8-----	Isopropylbenzene	8.2	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.2	U
108-86-1-----	Bromobenzene	8.2	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.2	U
96-18-4-----	1,2,3-Trichloropropane	8.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21934 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703263

Sample wt/vol: 12.2 (g/mL) G

Lab File ID: 703263

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	8.2	U
103-65-1-----	n-Propylbenzene	8.2	U
95-49-8-----	2-Chlorotoluene	8.2	U
106-43-4-----	4-Chlorotoluene	8.2	U
108-67-8-----	1,3,5-Trimethylbenzene	8.2	U
98-06-6-----	tert-Butylbenzene	8.2	U
95-63-6-----	1,2,4-Trimethylbenzene	8.2	U
135-98-8-----	sec-Butylbenzene	8.2	U
541-73-1-----	1,3-Dichlorobenzene	8.2	U
99-87-6-----	4-Isopropyltoluene	8.2	U
106-46-7-----	1,4-Dichlorobenzene	8.2	U
95-50-1-----	1,2-Dichlorobenzene	8.2	U
104-51-8-----	n-Butylbenzene	8.2	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	8.2	U
120-82-1-----	1,2,4-Trichlorobenzene	8.2	U
87-68-3-----	Hexachlorobutadiene	8.2	U
91-20-3-----	Naphthalene	8.2	U
87-61-6-----	1,2,3-Trichlorobenzene	8.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21942 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703265

Sample wt/vol: 11.6 (g/mL) G

Lab File ID: 703265

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	8.6	U
74-87-3-----	Chloromethane	8.6	U
75-01-4-----	Vinyl Chloride	8.6	U
74-83-9-----	Bromomethane	8.6	U
75-00-3-----	Chloroethane	8.6	U
75-69-4-----	Trichlorofluoromethane	8.6	U
107-02-8-----	Acrolein	43	U
75-35-4-----	1,1-Dichloroethene	8.6	U
76-13-1-----	Freon TF	8.6	U
67-64-1-----	Acetone	43	U
74-88-4-----	Methyl Iodide	8.6	U
75-15-0-----	Carbon Disulfide	8.6	U
107-05-1-----	Allyl Chloride	8.6	U
75-09-2-----	Methylene Chloride	8.6	U
107-13-1-----	Acrylonitrile	8.6	U
156-60-5-----	trans-1,2-Dichloroethene	8.6	U
1634-04-4-----	Methyl-t-Butyl Ether	8.6	U
540-59-0-----	1,2-Dichloroethene (total)	8.6	U
75-34-3-----	1,1-Dichloroethane	8.6	U
108-05-4-----	Vinyl Acetate	8.6	U
126-99-8-----	Chloroprene	8.6	U
594-20-7-----	2,2-Dichloropropane	8.6	U
156-59-2-----	cis-1,2-Dichloroethene	8.6	U
78-93-3-----	2-Butanone	72	
107-12-0-----	Propionitrile	34	U
74-97-5-----	Bromochloromethane	8.6	U
126-98-7-----	Methacrylonitrile	8.6	U
109-99-9-----	Tetrahydrofuran	120	U
67-66-3-----	Chloroform	8.6	U
71-55-6-----	1,1,1-Trichloroethane	8.6	U
56-23-5-----	Carbon Tetrachloride	8.6	U
563-58-6-----	1,1-Dichloropropene	8.6	U
71-43-2-----	Benzene	8.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21942 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703265

Sample wt/vol: 11.6 (g/mL) G

Lab File ID: 703265

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	430	U
107-06-2-----	1,2-Dichloroethane	8.6	U
79-01-6-----	Trichloroethene	8.6	U
78-87-5-----	1,2-Dichloropropane	8.6	U
74-95-3-----	Dibromomethane	8.6	U
80-62-6-----	Methyl Methacrylate	8.6	U
123-91-1-----	1,4-Dioxane	430	U
75-27-4-----	Bromodichloromethane	8.6	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.6	U
10061-01-5-----	cis-1,3-Dichloropropene	8.6	U
108-10-1-----	4-Methyl-2-pentanone	43	U
108-88-3-----	Toluene	1.8	J
10061-02-6-----	trans-1,3-Dichloropropene	8.6	U
97-63-2-----	Ethyl Methacrylate	8.6	U
79-00-5-----	1,1,2-Trichloroethane	8.6	U
127-18-4-----	Tetrachloroethene	8.6	U
142-28-9-----	1,3-Dichloropropane	8.6	U
591-78-6-----	2-Hexanone	43	U
124-48-1-----	Dibromochloromethane	8.6	U
106-93-4-----	1,2-Dibromoethane	8.6	U
108-90-7-----	Chlorobenzene	8.6	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.6	U
100-41-4-----	Ethylbenzene	8.6	U
1330-20-7-----	Xylene (m,p)	3.4	J
95-47-6-----	Xylene (o)	1.7	J
1330-20-7-----	Xylene (total)	5.2	J
100-42-5-----	Styrene	8.6	U
75-25-2-----	Bromoform	8.6	U
98-82-8-----	Isopropylbenzene	8.6	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.6	U
108-86-1-----	Bromobenzene	8.6	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.6	U
96-18-4-----	1,2,3-Trichloropropane	8.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21942 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703265

Sample wt/vol: 11.6 (g/mL) G

Lab File ID: 703265

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	8.6	U
103-65-1-----	n-Propylbenzene	8.6	U
95-49-8-----	2-Chlorotoluene	8.6	U
106-43-4-----	4-Chlorotoluene	8.6	U
108-67-8-----	1,3,5-Trimethylbenzene	8.6	U
98-06-6-----	tert-Butylbenzene	8.6	U
95-63-6-----	1,2,4-Trimethylbenzene	8.6	U
135-98-8-----	sec-Butylbenzene	8.6	U
541-73-1-----	1,3-Dichlorobenzene	8.6	U
99-87-6-----	4-Isopropyltoluene	8.6	U
106-46-7-----	1,4-Dichlorobenzene	8.6	U
95-50-1-----	1,2-Dichlorobenzene	8.6	U
104-51-8-----	n-Butylbenzene	8.6	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	8.6	U
120-82-1-----	1,2,4-Trichlorobenzene	8.6	U
87-68-3-----	Hexachlorobutadiene	8.6	U
91-20-3-----	Naphthalene	8.6	U
87-61-6-----	1,2,3-Trichlorobenzene	8.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21958 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703262

Sample wt/vol: 12.7 (g/mL) G

Lab File ID: 703262

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.9	U
74-87-3-----	Chloromethane	7.9	U
75-01-4-----	Vinyl Chloride	7.9	U
74-83-9-----	Bromomethane	7.9	U
75-00-3-----	Chloroethane	7.9	U
75-69-4-----	Trichlorofluoromethane	7.9	U
107-02-8-----	Acrolein	39	U
75-35-4-----	1,1-Dichloroethene	7.9	U
76-13-1-----	Freon TF	7.9	U
67-64-1-----	Acetone	39	U
74-88-4-----	Methyl Iodide	7.9	U
75-15-0-----	Carbon Disulfide	7.9	U
107-05-1-----	Allyl Chloride	7.9	U
75-09-2-----	Methylene Chloride	7.9	U
107-13-1-----	Acrylonitrile	7.9	U
156-60-5-----	trans-1,2-Dichloroethene	7.9	U
1634-04-4-----	Methyl-t-Butyl Ether	7.9	U
540-59-0-----	1,2-Dichloroethene (total)	7.9	U
75-34-3-----	1,1-Dichloroethane	7.9	U
108-05-4-----	Vinyl Acetate	7.9	U
126-99-8-----	Chloroprene	7.9	U
594-20-7-----	2,2-Dichloropropane	7.9	U
156-59-2-----	cis-1,2-Dichloroethene	7.9	U
78-93-3-----	2-Butanone	75	
107-12-0-----	Propionitrile	32	U
74-97-5-----	Bromochloromethane	7.9	U
126-98-7-----	Methacrylonitrile	7.9	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	7.9	U
71-55-6-----	1,1,1-Trichloroethane	7.9	U
56-23-5-----	Carbon Tetrachloride	7.9	U
563-58-6-----	1,1-Dichloropropene	7.9	U
71-43-2-----	Benzene	7.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21958 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703262

Sample wt/vol: 12.7 (g/mL) G

Lab File ID: 703262

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	390	U
107-06-2-----	1,2-Dichloroethane	7.9	U
79-01-6-----	Trichloroethene	7.9	U
78-87-5-----	1,2-Dichloropropane	7.9	U
74-95-3-----	Dibromomethane	7.9	U
80-62-6-----	Methyl Methacrylate	7.9	U
123-91-1-----	1,4-Dioxane	390	U
75-27-4-----	Bromodichloromethane	7.9	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.9	U
10061-01-5-----	cis-1,3-Dichloropropene	7.9	U
108-10-1-----	4-Methyl-2-pentanone	39	U
108-88-3-----	Toluene	1.7	J
10061-02-6-----	trans-1,3-Dichloropropene	7.9	U
97-63-2-----	Ethyl Methacrylate	7.9	U
79-00-5-----	1,1,2-Trichloroethane	7.9	U
127-18-4-----	Tetrachloroethene	7.9	U
142-28-9-----	1,3-Dichloropropane	7.9	U
591-78-6-----	2-Hexanone	39	U
124-48-1-----	Dibromochloromethane	7.9	U
106-93-4-----	1,2-Dibromoethane	7.9	U
108-90-7-----	Chlorobenzene	7.9	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.9	U
100-41-4-----	Ethylbenzene	7.9	U
1330-20-7-----	Xylene (m,p)	3.7	J
95-47-6-----	Xylene (o)	1.5	J
1330-20-7-----	Xylene (total)	5.4	J
100-42-5-----	Styrene	7.9	U
75-25-2-----	Bromoform	7.9	U
98-82-8-----	Isopropylbenzene	7.9	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.9	U
108-86-1-----	Bromobenzene	7.9	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.9	U
96-18-4-----	1,2,3-Trichloropropane	7.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21958 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703262

Sample wt/vol: 12.7 (g/mL) G

Lab File ID: 703262

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

110-57-6-----	trans-1,4-Dichloro-2-butene	7.9	U
103-65-1-----	n-Propylbenzene	7.9	U
95-49-8-----	2-Chlorotoluene	7.9	U
106-43-4-----	4-Chlorotoluene	7.9	U
108-67-8-----	1,3,5-Trimethylbenzene	7.9	U
98-06-6-----	tert-Butylbenzene	7.9	U
95-63-6-----	1,2,4-Trimethylbenzene	7.9	U
135-98-8-----	sec-Butylbenzene	7.9	U
541-73-1-----	1,3-Dichlorobenzene	7.9	U
99-87-6-----	4-Isopropyltoluene	7.9	U
106-46-7-----	1,4-Dichlorobenzene	7.9	U
95-50-1-----	1,2-Dichlorobenzene	7.9	U
104-51-8-----	n-Butylbenzene	7.9	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	7.9	U
120-82-1-----	1,2,4-Trichlorobenzene	7.9	U
87-68-3-----	Hexachlorobutadiene	7.9	U
91-20-3-----	Naphthalene	7.9	U
87-61-6-----	1,2,3-Trichlorobenzene	7.9	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21963 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703267

Sample wt/vol: 13.2 (g/mL) G

Lab File ID: 703267

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.6	U
74-87-3-----	Chloromethane	7.6	U
75-01-4-----	Vinyl Chloride	7.6	U
74-83-9-----	Bromomethane	7.6	U
75-00-3-----	Chloroethane	7.6	U
75-69-4-----	Trichlorofluoromethane	7.6	U
107-02-8-----	Acrolein	38	U
75-35-4-----	1,1-Dichloroethene	7.6	U
76-13-1-----	Freon TF	7.6	U
67-64-1-----	Acetone	38	U
74-88-4-----	Methyl Iodide	7.6	U
75-15-0-----	Carbon Disulfide	7.6	U
107-05-1-----	Allyl Chloride	7.6	U
75-09-2-----	Methylene Chloride	7.6	U
107-13-1-----	Acrylonitrile	7.6	U
156-60-5-----	trans-1,2-Dichloroethene	7.6	U
1634-04-4-----	Methyl-t-Butyl Ether	7.6	U
540-59-0-----	1,2-Dichloroethene (total)	7.6	U
75-34-3-----	1,1-Dichloroethane	7.6	U
108-05-4-----	Vinyl Acetate	7.6	U
126-99-8-----	Chloroprene	7.6	U
594-20-7-----	2,2-Dichloropropane	7.6	U
156-59-2-----	cis-1,2-Dichloroethene	7.6	U
78-93-3-----	2-Butanone	38	U
107-12-0-----	Propionitrile	30	U
74-97-5-----	Bromochloromethane	7.6	U
126-98-7-----	Methacrylonitrile	7.6	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	7.6	U
71-55-6-----	1,1,1-Trichloroethane	7.6	U
56-23-5-----	Carbon Tetrachloride	7.6	U
563-58-6-----	1,1-Dichloropropene	7.6	U
71-43-2-----	Benzene	7.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21963 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703267

Sample wt/vol: 13.2 (g/mL) G

Lab File ID: 703267

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	380	U
107-06-2-----	1,2-Dichloroethane	7.6	U
79-01-6-----	Trichloroethene	7.6	U
78-87-5-----	1,2-Dichloropropane	7.6	U
74-95-3-----	Dibromomethane	7.6	U
80-62-6-----	Methyl Methacrylate	7.6	U
123-91-1-----	1,4-Dioxane	380	U
75-27-4-----	Bromodichloromethane	7.6	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.6	U
10061-01-5-----	cis-1,3-Dichloropropene	7.6	U
108-10-1-----	4-Methyl-2-pentanone	38	U
108-88-3-----	Toluene	7.6	U
10061-02-6-----	trans-1,3-Dichloropropene	7.6	U
97-63-2-----	Ethyl Methacrylate	7.6	U
79-00-5-----	1,1,2-Trichloroethane	7.6	U
127-18-4-----	Tetrachloroethene	7.6	U
142-28-9-----	1,3-Dichloropropane	7.6	U
591-78-6-----	2-Hexanone	38	U
124-48-1-----	Dibromochloromethane	7.6	U
106-93-4-----	1,2-Dibromoethane	7.6	U
108-90-7-----	Chlorobenzene	7.6	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.6	U
100-41-4-----	Ethylbenzene	7.6	U
1330-20-7-----	Xylene (m,p)	2.7	J
95-47-6-----	Xylene (o)	1.4	J
1330-20-7-----	Xylene (total)	4.2	J
100-42-5-----	Styrene	7.6	U
75-25-2-----	Bromoform	7.6	U
98-82-8-----	Isopropylbenzene	7.6	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.6	U
108-86-1-----	Bromobenzene	7.6	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.6	U
96-18-4-----	1,2,3-Trichloropropane	7.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21963 20A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703267

Sample wt/vol: 13.2 (g/mL) G

Lab File ID: 703267

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	7.6	U
103-65-1-----	n-Propylbenzene	7.6	U
95-49-8-----	2-Chlorotoluene	7.6	U
106-43-4-----	4-Chlorotoluene	7.6	U
108-67-8-----	1,3,5-Trimethylbenzene	7.6	U
98-06-6-----	tert-Butylbenzene	7.6	U
95-63-6-----	1,2,4-Trimethylbenzene	7.6	U
135-98-8-----	sec-Butylbenzene	7.6	U
541-73-1-----	1,3-Dichlorobenzene	7.6	U
99-87-6-----	4-Isopropyltoluene	7.6	U
106-46-7-----	1,4-Dichlorobenzene	7.6	U
95-50-1-----	1,2-Dichlorobenzene	7.6	U
104-51-8-----	n-Butylbenzene	7.6	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	7.6	U
120-82-1-----	1,2,4-Trichlorobenzene	7.6	U
87-68-3-----	Hexachlorobutadiene	7.6	U
91-20-3-----	Naphthalene	7.6	U
87-61-6-----	1,2,3-Trichlorobenzene	7.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21976 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703266

Sample wt/vol: 12.3 (g/mL) G

Lab File ID: 703266

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8.1	U
74-87-3	Chloromethane	8.1	U
75-01-4	Vinyl Chloride	8.1	U
74-83-9	Bromomethane	8.1	U
75-00-3	Chloroethane	8.1	U
75-69-4	Trichlorofluoromethane	8.1	U
107-02-8	Acrolein	41	U
75-35-4	1,1-Dichloroethene	8.1	U
76-13-1	Freon TF	8.1	U
67-64-1	Acetone	41	U
74-88-4	Methyl Iodide	8.1	U
75-15-0	Carbon Disulfide	8.1	U
107-05-1	Allyl Chloride	8.1	U
75-09-2	Methylene Chloride	8.1	U
107-13-1	Acrylonitrile	8.1	U
156-60-5	trans-1,2-Dichloroethene	8.1	U
1634-04-4	Methyl-t-Butyl Ether	8.1	U
540-59-0	1,2-Dichloroethene (total)	8.1	U
75-34-3	1,1-Dichloroethane	8.1	U
108-05-4	Vinyl Acetate	8.1	U
126-99-8	Chloroprene	8.1	U
594-20-7	2,2-Dichloropropane	8.1	U
156-59-2	cis-1,2-Dichloroethene	8.1	U
78-93-3	2-Butanone	63	
107-12-0	Propionitrile	32	U
74-97-5	Bromochloromethane	8.1	U
126-98-7	Methacrylonitrile	8.1	U
109-99-9	Tetrahydrofuran	110	U
67-66-3	Chloroform	8.1	U
71-55-6	1,1,1-Trichloroethane	8.1	U
56-23-5	Carbon Tetrachloride	8.1	U
563-58-6	1,1-Dichloropropene	8.1	U
71-43-2	Benzene	8.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21976 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703266

Sample wt/vol: 12.3 (g/mL) G

Lab File ID: 703266

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	410	U
107-06-2-----	1,2-Dichloroethane	8.1	U
79-01-6-----	Trichloroethene	8.1	U
78-87-5-----	1,2-Dichloropropane	8.1	U
74-95-3-----	Dibromomethane	8.1	U
80-62-6-----	Methyl Methacrylate	8.1	U
123-91-1-----	1,4-Dioxane	410	U
75-27-4-----	Bromodichloromethane	8.1	U
110-75-8-----	2-Chloroethyl Vinyl Ether	8.1	U
10061-01-5-----	cis-1,3-Dichloropropene	8.1	U
108-10-1-----	4-Methyl-2-pentanone	41	U
108-88-3-----	Toluene	8.1	U
10061-02-6-----	trans-1,3-Dichloropropene	8.1	U
97-63-2-----	Ethyl Methacrylate	8.1	U
79-00-5-----	1,1,2-Trichloroethane	8.1	U
127-18-4-----	Tetrachloroethene	8.1	U
142-28-9-----	1,3-Dichloropropane	8.1	U
591-78-6-----	2-Hexanone	41	U
124-48-1-----	Dibromochloromethane	8.1	U
106-93-4-----	1,2-Dibromoethane	8.1	U
108-90-7-----	Chlorobenzene	8.1	U
630-20-6-----	1,1,1,2-Tetrachloroethane	8.1	U
100-41-4-----	Ethylbenzene	8.1	U
1330-20-7-----	Xylene (m,p)	3.6	J
95-47-6-----	Xylene (o)	1.5	J
1330-20-7-----	Xylene (total)	5.3	J
100-42-5-----	Styrene	8.1	U
75-25-2-----	Bromoform	8.1	U
98-82-8-----	Isopropylbenzene	8.1	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	8.1	U
108-86-1-----	Bromobenzene	8.1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	8.1	U
96-18-4-----	1,2,3-Trichloropropane	8.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-21976 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703266

Sample wt/vol: 12.3 (g/mL) G

Lab File ID: 703266

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	8.1	U
103-65-1-----	n-Propylbenzene	8.1	U
95-49-8-----	2-Chlorotoluene	8.1	U
106-43-4-----	4-Chlorotoluene	8.1	U
108-67-8-----	1,3,5-Trimethylbenzene	8.1	U
98-06-6-----	tert-Butylbenzene	8.1	U
95-63-6-----	1,2,4-Trimethylbenzene	8.1	U
135-98-8-----	sec-Butylbenzene	8.1	U
541-73-1-----	1,3-Dichlorobenzene	8.1	U
99-87-6-----	4-Isopropyltoluene	8.1	U
106-46-7-----	1,4-Dichlorobenzene	8.1	U
95-50-1-----	1,2-Dichlorobenzene	8.1	U
104-51-8-----	n-Butylbenzene	8.1	U
96-12-8-----	1,2-Dibromo-3-Chloropropane_	8.1	U
120-82-1-----	1,2,4-Trichlorobenzene	8.1	U
87-68-3-----	Hexachlorobutadiene	8.1	U
91-20-3-----	Naphthalene	8.1	U
87-61-6-----	1,2,3-Trichlorobenzene	8.1	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-BLANK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703271

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 703271

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	10	U
74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-69-4-----	Trichlorofluoromethane	10	U
107-02-8-----	Acrolein	50	U
75-35-4-----	1,1-Dichloroethene	10	U
76-13-1-----	Freon TF	10	U
67-64-1-----	Acetone	50	U
74-88-4-----	Methyl Iodide	10	U
75-15-0-----	Carbon Disulfide	10	U
107-05-1-----	Allyl Chloride	10	U
75-09-2-----	Methylene Chloride	10	U
107-13-1-----	Acrylonitrile	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl-t-Butyl Ether	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
75-34-3-----	1,1-Dichloroethane	10	U
108-05-4-----	Vinyl Acetate	10	U
126-99-8-----	Chloroprene	10	U
594-20-7-----	2,2-Dichloropropane	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	50	U
107-12-0-----	Propionitrile	40	U
74-97-5-----	Bromochloromethane	10	U
126-98-7-----	Methacrylonitrile	10	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
563-58-6-----	1,1-Dichloropropene	10	U
71-43-2-----	Benzene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-BLANK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703271

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 703271

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	500	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
74-95-3-----	Dibromomethane	10	U
80-62-6-----	Methyl Methacrylate	10	U
123-91-1-----	1,4-Dioxane	500	U
75-27-4-----	Bromodichloromethane	10	U
110-75-8-----	2-Chloroethyl Vinyl Ether	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	50	U
108-88-3-----	Toluene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
97-63-2-----	Ethyl Methacrylate	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
142-28-9-----	1,3-Dichloropropane	10	U
591-78-6-----	2-Hexanone	50	U
124-48-1-----	Dibromochloromethane	10	U
106-93-4-----	1,2-Dibromoethane	10	U
108-90-7-----	Chlorobenzene	10	U
630-20-6-----	1,1,1,2-Tetrachloroethane	10	U
100-41-4-----	Ethylbenzene	10	U
1330-20-7-----	Xylene (m,p)	10	U
95-47-6-----	Xylene (o)	10	U
1330-20-7-----	Xylene (total)	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
98-82-8-----	Isopropylbenzene	10	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	10	U
108-86-1-----	Bromobenzene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
96-18-4-----	1,2,3-Trichloropropane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-BLANK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119076

Matrix: (soil/water) SOIL

Lab Sample ID: 703271

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 703271

Level: (low/med) MED

Date Received: 03/14/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6	trans-1,4-Dichloro-2-butene	10	U
103-65-1	n-Propylbenzene	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
91-20-3	Naphthalene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

April 4, 2007

Mr. Clyde Dennis
Argonne National Laboratory
Chief Financial Officer
9700 S. Cass Avenue, Bldg. 201
Argonne, IL 60439



STL Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403

Tel: 802 660 1990 Fax: 802 660 1919
www.stl-inc.com

Re: Laboratory Project No. 21005
Case: BARNES; SDG: 119211

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on March 23rd, 2007. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 03/23/07 ETR No: 119211			
704265	BA-S-22493 (10A)	03/20/07	LIQUID
704266	BA-S-22533 (30A)	03/20/07	LIQUID
704267	BA-S-22532 (5A)	03/20/07	LIQUID
704268	BA-S-22527 (10A)	03/20/07	LIQUID
704269	BA-MEOH BLANK	03/20/07	LIQUID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal. In order to accommodate field length limitations in processing the data summary forms, the laboratory did, in certain instances, abbreviate the sample identifier. The electronically formatted data provides for the full sample identifier.

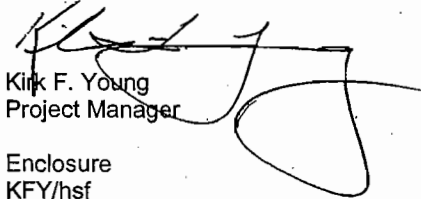
The samples were analyzed by Method 8260B, using a low-level calibration. In performing the analytical work, 500 microliters of the methanol extract were added to the 5 milliliter purge volume. Each of the analyses associated with the sample set did exhibit good internal standard performance. The surrogate controls were recovered well in each of the analyses associated with the sample set. Two types of laboratory control sample analyses were performed in the course of the analytical work. One was performed to evaluate method performance, and one was performed with 500 microliters of methanol added to the purge volume in order to characterize the affect on the analytical process. The recovery of vinyl acetate was elevated in the laboratory control sample analysis that defined method performance (approximating 130 percent). The other target analytes were recovered well in that analysis. In the laboratory control sample analysis with methanol, several of the earlier eluting compounds did exhibit lower recoveries, as did certain of the later eluting compounds. Most profoundly affected was the performance of acrolien, methyl iodide, and propionitrile for which the derived recovery value approximated 10 percent. Chloroform and carbon tetrachloride were recovered well in each of the laboratory control sample analyses. Matrix spike and matrix spike duplicate analyses were not performed on samples in this sample set. A relatively high concentration of 2-butanone, and trace concentrations of toluene and the xylenes were identified in the analysis of sample BA-MEOH BLANK. The laboratory did

associate the analysis of sample BA-MEOH BLANK with each of the other field sample analyses in order to reference the blank association, and accordingly qualify the reported results. The instrument blank that was analyzed in association with the samples was free of contamination.

If there are any questions regarding this submittal, please contact me at (802) 655-1203. The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,


Kirk F. Young
Project Manager

Enclosure
KFY/hsf

STL Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: Greater than 40% difference for detected concentrations between two GC columns. Unless otherwise specified the higher of the two values is reported on the Form I.
- CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric



Sample Data Summary Package - 8260B Volatile

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-MEOH BLANK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704269

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 704269

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	10	U
74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-69-4-----	Trichlorofluoromethane	10	U
107-02-8-----	Acrolein	50	U
75-35-4-----	1,1-Dichloroethene	10	U
76-13-1-----	Freon TF	10	U
67-64-1-----	Acetone	50	U
74-88-4-----	Methyl Iodide	10	U
75-15-0-----	Carbon Disulfide	10	U
107-05-1-----	Allyl Chloride	10	U
75-09-2-----	Methylene Chloride	10	U
107-13-1-----	Acrylonitrile	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl-t-Butyl Ether	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
75-34-3-----	1,1-Dichloroethane	10	U
108-05-4-----	Vinyl Acetate	10	U
126-99-8-----	Chloroprene	10	U
594-20-7-----	2,2-Dichloropropane	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
78-93-3-----	2-Butanone	95	
107-12-0-----	Propionitrile	40	U
74-97-5-----	Bromochloromethane	10	U
126-98-7-----	Methacrylonitrile	10	U
109-99-9-----	Tetrahydrofuran	140	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
563-58-6-----	1,1-Dichloropropene	10	U
71-43-2-----	Benzene	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-MEOH BLANK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704269

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 704269

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	500	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
74-95-3-----	Dibromomethane	10	U
80-62-6-----	Methyl Methacrylate	10	U
123-91-1-----	1,4-Dioxane	500	U
75-27-4-----	Bromodichloromethane	10	U
110-75-8-----	2-Chloroethyl Vinyl Ether	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	50	U
108-88-3-----	Toluene	2.3	J
10061-02-6-----	trans-1,3-Dichloropropene	10	U
97-63-2-----	Ethyl Methacrylate	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
142-28-9-----	1,3-Dichloropropane	10	U
591-78-6-----	2-Hexanone	50	U
124-48-1-----	Dibromochloromethane	10	U
106-93-4-----	1,2-Dibromoethane	10	U
108-90-7-----	Chlorobenzene	10	U
630-20-6-----	1,1,1,2-Tetrachloroethane	10	U
100-41-4-----	Ethylbenzene	10	U
1330-20-7-----	Xylene (m,p)	3.3	J
95-47-6-----	Xylene (o)	1.9	J
1330-20-7-----	Xylene (total)	5.3	J
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
98-82-8-----	Isopropylbenzene	10	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	10	U
108-86-1-----	Bromobenzene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
96-18-4-----	1,2,3-Trichloropropane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-MEOH BLANK

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704269

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 704269

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	10	U
103-65-1-----	n-Propylbenzene	10	U
95-49-8-----	2-Chlorotoluene	10	U
106-43-4-----	4-Chlorotoluene	10	U
108-67-8-----	1,3,5-Trimethylbenzene	10	U
98-06-6-----	tert-Butylbenzene	10	U
95-63-6-----	1,2,4-Trimethylbenzene	10	U
135-98-8-----	sec-Butylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
99-87-6-----	4-Isopropyltoluene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
104-51-8-----	n-Butylbenzene	10	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
91-20-3-----	Naphthalene	10	U
87-61-6-----	1,2,3-Trichlorobenzene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22493 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704265

Sample wt/vol: 13.3 (g/mL) G

Lab File ID: 704265

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.5	U
74-87-3-----	Chloromethane	7.5	U
75-01-4-----	Vinyl Chloride	7.5	U
74-83-9-----	Bromomethane	7.5	U
75-00-3-----	Chloroethane	7.5	U
75-69-4-----	Trichlorofluoromethane	7.5	U
107-02-8-----	Acrolein	38	U
75-35-4-----	1,1-Dichloroethene	7.5	U
76-13-1-----	Freon TF	7.5	U
67-64-1-----	Acetone	38	U
74-88-4-----	Methyl Iodide	7.5	U
75-15-0-----	Carbon Disulfide	7.5	U
107-05-1-----	Allyl Chloride	7.5	U
75-09-2-----	Methylene Chloride	7.5	U
107-13-1-----	Acrylonitrile	7.5	U
156-60-5-----	trans-1,2-Dichloroethene	7.5	U
1634-04-4-----	Methyl-t-Butyl Ether	7.5	U
540-59-0-----	1,2-Dichloroethene (total)	7.5	U
75-34-3-----	1,1-Dichloroethane	7.5	U
108-05-4-----	Vinyl Acetate	7.5	U
126-99-8-----	Chloroprene	7.5	U
594-20-7-----	2,2-Dichloropropane	7.5	U
156-59-2-----	cis-1,2-Dichloroethene	7.5	U
78-93-3-----	2-Butanone	23	JB
107-12-0-----	Propionitrile	30	U
74-97-5-----	Bromochloromethane	7.5	U
126-98-7-----	Methacrylonitrile	7.5	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	7.5	U
71-55-6-----	1,1,1-Trichloroethane	7.5	U
56-23-5-----	Carbon Tetrachloride	7.5	U
563-58-6-----	1,1-Dichloropropene	7.5	U
71-43-2-----	Benzene	7.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22493 10A

Lab Name: STL BURLINGTON Contract: 21005

Lab Code: STLVT Case No.: BARNES SAS No.: SDG No.: 119211

Matrix: (soil/water) SOIL Lab Sample ID: 704265

Sample wt/vol: 13.3 (g/mL) G Lab File ID: 704265

Level: (low/med) MED Date Received: 03/23/07

% Moisture: not dec. Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
78-83-1	Isobutyl Alcohol	380	U
107-06-2	1,2-Dichloroethane	7.5	U
79-01-6	Trichloroethene	7.5	U
78-87-5	1,2-Dichloropropane	7.5	U
74-95-3	Dibromomethane	7.5	U
80-62-6	Methyl Methacrylate	7.5	U
123-91-1	1,4-Dioxane	380	U
75-27-4	Bromodichloromethane	7.5	U
110-75-8	2-Chloroethyl Vinyl Ether	7.5	U
10061-01-5	cis-1,3-Dichloropropene	7.5	U
108-10-1	4-Methyl-2-pentanone	38	U
108-88-3	Toluene	7.5	U
10061-02-6	trans-1,3-Dichloropropene	7.5	U
97-63-2	Ethyl Methacrylate	7.5	U
79-00-5	1,1,2-Trichloroethane	7.5	U
127-18-4	Tetrachloroethene	7.5	U
142-28-9	1,3-Dichloropropane	7.5	U
591-78-6	2-Hexanone	38	U
124-48-1	Dibromochloromethane	7.5	U
106-93-4	1,2-Dibromoethane	7.5	U
108-90-7	Chlorobenzene	7.5	U
630-20-6	1,1,1,2-Tetrachloroethane	7.5	U
100-41-4	Ethylbenzene	7.5	U
1330-20-7	Xylene (m,p)	7.5	U
95-47-6	Xylene (o)	7.5	U
1330-20-7	Xylene (total)	7.5	U
100-42-5	Styrene	7.5	U
75-25-2	Bromoform	7.5	U
98-82-8	Isopropylbenzene	7.5	U
1476-11-5	cis-1,4-Dichloro-2-butene	7.5	U
108-86-1	Bromobenzene	7.5	U
79-34-5	1,1,2,2-Tetrachloroethane	7.5	U
96-18-4	1,2,3-Trichloropropane	7.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22493 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704265

Sample wt/vol: 13.3 (g/mL) G

Lab File ID: 704265

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6	trans-1,4-Dichloro-2-butene	7.5	U
103-65-1	n-Propylbenzene	7.5	U
95-49-8	2-Chlorotoluene	7.5	U
106-43-4	4-Chlorotoluene	7.5	U
108-67-8	1,3,5-Trimethylbenzene	7.5	U
98-06-6	tert-Butylbenzene	7.5	U
95-63-6	1,2,4-Trimethylbenzene	7.5	U
135-98-8	sec-Butylbenzene	7.5	U
541-73-1	1,3-Dichlorobenzene	7.5	U
99-87-6	4-Isopropyltoluene	7.5	U
106-46-7	1,4-Dichlorobenzene	7.5	U
95-50-1	1,2-Dichlorobenzene	7.5	U
104-51-8	n-Butylbenzene	7.5	U
96-12-8	1,2-Dibromo-3-Chloropropane	7.5	U
120-82-1	1,2,4-Trichlorobenzene	7.5	U
87-68-3	Hexachlorobutadiene	7.5	U
91-20-3	Naphthalene	7.5	U
87-61-6	1,2,3-Trichlorobenzene	7.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22527 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704268

Sample wt/vol: 13.6 (g/mL) G

Lab File ID: 704268

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.3	U
74-87-3	Chloromethane	7.3	U
75-01-4	Vinyl Chloride	7.3	U
74-83-9	Bromomethane	7.3	U
75-00-3	Chloroethane	7.3	U
75-69-4	Trichlorofluoromethane	7.3	U
107-02-8	Acrolein	37	U
75-35-4	1,1-Dichloroethene	7.3	U
76-13-1	Freon TF	7.3	U
67-64-1	Acetone	37	U
74-88-4	Methyl Iodide	7.3	U
75-15-0	Carbon Disulfide	7.3	U
107-05-1	Allyl Chloride	7.3	U
75-09-2	Methylene Chloride	7.3	U
107-13-1	Acrylonitrile	7.3	U
156-60-5	trans-1,2-Dichloroethene	7.3	U
1634-04-4	Methyl-t-Butyl Ether	7.3	U
540-59-0	1,2-Dichloroethene (total)	7.3	U
75-34-3	1,1-Dichloroethane	7.3	U
108-05-4	Vinyl Acetate	7.3	U
126-99-8	Chloroprene	7.3	U
594-20-7	2,2-Dichloropropane	7.3	U
156-59-2	cis-1,2-Dichloroethene	7.3	U
78-93-3	2-Butanone	100	B
107-12-0	Propionitrile	29	U
74-97-5	Bromochloromethane	7.3	U
126-98-7	Methacrylonitrile	7.3	U
109-99-9	Tetrahydrofuran	100	U
67-66-3	Chloroform	7.3	U
71-55-6	1,1,1-Trichloroethane	7.3	U
56-23-5	Carbon Tetrachloride	7.3	U
563-58-6	1,1-Dichloropropene	7.3	U
71-43-2	Benzene	7.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22527 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704268

Sample wt/vol: 13.6 (g/mL) G

Lab File ID: 704268

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	370	U
107-06-2-----	1,2-Dichloroethane	7.3	U
79-01-6-----	Trichloroethene	7.3	U
78-87-5-----	1,2-Dichloropropane	7.3	U
74-95-3-----	Dibromomethane	7.3	U
80-62-6-----	Methyl Methacrylate	7.3	U
123-91-1-----	1,4-Dioxane	370	U
75-27-4-----	Bromodichloromethane	7.3	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.3	U
10061-01-5-----	cis-1,3-Dichloropropene	7.3	U
108-10-1-----	4-Methyl-2-pentanone	37	U
108-88-3-----	Toluene	1.9	JB
10061-02-6-----	trans-1,3-Dichloropropene	7.3	U
97-63-2-----	Ethyl Methacrylate	7.3	U
79-00-5-----	1,1,2-Trichloroethane	7.3	U
127-18-4-----	Tetrachloroethene	7.3	U
142-28-9-----	1,3-Dichloropropane	7.3	U
591-78-6-----	2-Hexanone	37	U
124-48-1-----	Dibromochloromethane	7.3	U
106-93-4-----	1,2-Dibromoethane	7.3	U
108-90-7-----	Chlorobenzene	7.3	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.3	U
100-41-4-----	Ethylbenzene	7.3	U
1330-20-7-----	Xylene (m,p)	3.0	JB
95-47-6-----	Xylene (o)	1.6	JB
1330-20-7-----	Xylene (total)	4.7	JB
100-42-5-----	Styrene	7.3	U
75-25-2-----	Bromoform	7.3	U
98-82-8-----	Isopropylbenzene	7.3	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.3	U
108-86-1-----	Bromobenzene	7.3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.3	U
96-18-4-----	1,2,3-Trichloropropane	7.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22527 10A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704268

Sample wt/vol: 13.6 (g/mL) G

Lab File ID: 704268

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6	trans-1,4-Dichloro-2-butene	7.3	U
103-65-1	n-Propylbenzene	7.3	U
95-49-8	2-Chlorotoluene	7.3	U
106-43-4	4-Chlorotoluene	7.3	U
108-67-8	1,3,5-Trimethylbenzene	7.3	U
98-06-6	tert-Butylbenzene	7.3	U
95-63-6	1,2,4-Trimethylbenzene	7.3	U
135-98-8	sec-Butylbenzene	7.3	U
541-73-1	1,3-Dichlorobenzene	7.3	U
99-87-6	4-Isopropyltoluene	7.3	U
106-46-7	1,4-Dichlorobenzene	7.3	U
95-50-1	1,2-Dichlorobenzene	7.3	U
104-51-8	n-Butylbenzene	7.3	U
96-12-8	1,2-Dibromo-3-Chloropropane	7.3	U
120-82-1	1,2,4-Trichlorobenzene	7.3	U
87-68-3	Hexachlorobutadiene	7.3	U
91-20-3	Naphthalene	7.3	U
87-61-6	1,2,3-Trichlorobenzene	7.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22532 5A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704267

Sample wt/vol: 13.1 (g/mL) G

Lab File ID: 704267

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.6	U
74-87-3-----	Chloromethane	7.6	U
75-01-4-----	Vinyl Chloride	7.6	U
74-83-9-----	Bromomethane	7.6	U
75-00-3-----	Chloroethane	7.6	U
75-69-4-----	Trichlorofluoromethane	7.6	U
107-02-8-----	Acrolein	38	U
75-35-4-----	1,1-Dichloroethene	7.6	U
76-13-1-----	Freon TF	7.6	U
67-64-1-----	Acetone	38	U
74-88-4-----	Methyl Iodide	7.6	U
75-15-0-----	Carbon Disulfide	7.6	U
107-05-1-----	Allyl Chloride	7.6	U
75-09-2-----	Methylene Chloride	7.6	U
107-13-1-----	Acrylonitrile	7.6	U
156-60-5-----	trans-1,2-Dichloroethene	7.6	U
1634-04-4-----	Methyl-t-Butyl Ether	7.6	U
540-59-0-----	1,2-Dichloroethene (total)	7.6	U
75-34-3-----	1,1-Dichloroethane	7.6	U
108-05-4-----	Vinyl Acetate	7.6	U
126-99-8-----	Chloroprene	7.6	U
594-20-7-----	2,2-Dichloropropane	7.6	U
156-59-2-----	cis-1,2-Dichloroethene	7.6	U
78-93-3-----	2-Butanone	63	B
107-12-0-----	Propionitrile	30	U
74-97-5-----	Bromochloromethane	7.6	U
126-98-7-----	Methacrylonitrile	7.6	U
109-99-9-----	Tetrahydrofuran	110	U
67-66-3-----	Chloroform	7.6	U
71-55-6-----	1,1,1-Trichloroethane	7.6	U
56-23-5-----	Carbon Tetrachloride	7.6	U
563-58-6-----	1,1-Dichloropropene	7.6	U
71-43-2-----	Benzene	7.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22532 5A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704267

Sample wt/vol: 13.1 (g/mL) G

Lab File ID: 704267

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
78-83-1	Isobutyl Alcohol	380	U
107-06-2	1,2-Dichloroethane	7.6	U
79-01-6	Trichloroethene	7.6	U
78-87-5	1,2-Dichloropropane	7.6	U
74-95-3	Dibromomethane	7.6	U
80-62-6	Methyl Methacrylate	7.6	U
123-91-1	1,4-Dioxane	380	U
75-27-4	Bromodichloromethane	7.6	U
110-75-8	2-Chloroethyl Vinyl Ether	7.6	U
10061-01-5	cis-1,3-Dichloropropene	7.6	U
108-10-1	4-Methyl-2-pentanone	38	U
108-88-3	Toluene	1.9	JB
10061-02-6	trans-1,3-Dichloropropene	7.6	U
97-63-2	Ethyl Methacrylate	7.6	U
79-00-5	1,1,2-Trichloroethane	7.6	U
127-18-4	Tetrachloroethene	7.6	U
142-28-9	1,3-Dichloropropane	7.6	U
591-78-6	2-Hexanone	38	U
124-48-1	Dibromochloromethane	7.6	U
106-93-4	1,2-Dibromoethane	7.6	U
108-90-7	Chlorobenzene	7.6	U
630-20-6	1,1,1,2-Tetrachloroethane	7.6	U
100-41-4	Ethylbenzene	7.6	U
1330-20-7	Xylene (m,p)	2.7	JB
95-47-6	Xylene (o)	1.5	JB
1330-20-7	Xylene (total)	4.3	JB
100-42-5	Styrene	7.6	U
75-25-2	Bromoform	7.6	U
98-82-8	Isopropylbenzene	7.6	U
1476-11-5	cis-1,4-Dichloro-2-butene	7.6	U
108-86-1	Bromobenzene	7.6	U
79-34-5	1,1,2,2-Tetrachloroethane	7.6	U
96-18-4	1,2,3-Trichloropropane	7.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22532 5A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704267

Sample wt/vol: 13.1 (g/mL) G

Lab File ID: 704267

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

110-57-6-----	trans-1,4-Dichloro-2-butene_	7.6	U
103-65-1-----	n-Propylbenzene	7.6	U
95-49-8-----	2-Chlorotoluene	7.6	U
106-43-4-----	4-Chlorotoluene	7.6	U
108-67-8-----	1,3,5-Trimethylbenzene	7.6	U
98-06-6-----	tert-Butylbenzene	7.6	U
95-63-6-----	1,2,4-Trimethylbenzene	7.6	U
135-98-8-----	sec-Butylbenzene	7.6	U
541-73-1-----	1,3-Dichlorobenzene	7.6	U
99-87-6-----	4-Isopropyltoluene	7.6	U
106-46-7-----	1,4-Dichlorobenzene	7.6	U
95-50-1-----	1,2-Dichlorobenzene	7.6	U
104-51-8-----	n-Butylbenzene	7.6	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	7.6	U
120-82-1-----	1,2,4-Trichlorobenzene	7.6	U
87-68-3-----	Hexachlorobutadiene	7.6	U
91-20-3-----	Naphthalene	7.6	U
87-61-6-----	1,2,3-Trichlorobenzene	7.6	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22533 30A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704266

Sample wt/vol: 13.4 (g/mL) G

Lab File ID: 704266

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 500 (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

75-71-8-----	Dichlorodifluoromethane	7.5	U
74-87-3-----	Chloromethane	7.5	U
75-01-4-----	Vinyl Chloride	7.5	U
74-83-9-----	Bromomethane	7.5	U
75-00-3-----	Chloroethane	7.5	U
75-69-4-----	Trichlorofluoromethane	7.5	U
107-02-8-----	Acrolein	37	U
75-35-4-----	1,1-Dichloroethene	7.5	U
76-13-1-----	Freon TF	7.5	U
67-64-1-----	Acetone	37	U
74-88-4-----	Methyl Iodide	7.5	U
75-15-0-----	Carbon Disulfide	7.5	U
107-05-1-----	Allyl Chloride	7.5	U
75-09-2-----	Methylene Chloride	7.5	U
107-13-1-----	Acrylonitrile	7.5	U
156-60-5-----	trans-1,2-Dichloroethene	7.5	U
1634-04-4-----	Methyl-t-Butyl Ether	7.5	U
540-59-0-----	1,2-Dichloroethene (total)	7.5	U
75-34-3-----	1,1-Dichloroethane	7.5	U
108-05-4-----	Vinyl Acetate	7.5	U
126-99-8-----	Chloroprene	7.5	U
594-20-7-----	2,2-Dichloropropane	7.5	U
156-59-2-----	cis-1,2-Dichloroethene	7.5	U
78-93-3-----	2-Butanone	63	B
107-12-0-----	Propionitrile	30	U
74-97-5-----	Bromochloromethane	7.5	U
126-98-7-----	Methacrylonitrile	7.5	U
109-99-9-----	Tetrahydrofuran	100	U
67-66-3-----	Chloroform	7.5	U
71-55-6-----	1,1,1-Trichloroethane	7.5	U
56-23-5-----	Carbon Tetrachloride	7.5	U
563-58-6-----	1,1-Dichloropropene	7.5	U
71-43-2-----	Benzene	7.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22533 30A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704266

Sample wt/vol: 13.4 (g/mL) G

Lab File ID: 704266

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000(uL)

Soil Aliquot Volume: 500(uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

78-83-1-----	Isobutyl Alcohol	370	U
107-06-2-----	1,2-Dichloroethane	7.5	U
79-01-6-----	Trichloroethene	7.5	U
78-87-5-----	1,2-Dichloropropane	7.5	U
74-95-3-----	Dibromomethane	7.5	U
80-62-6-----	Methyl Methacrylate	7.5	U
123-91-1-----	1,4-Dioxane	370	U
75-27-4-----	Bromodichloromethane	7.5	U
110-75-8-----	2-Chloroethyl Vinyl Ether	7.5	U
10061-01-5-----	cis-1,3-Dichloropropene	7.5	U
108-10-1-----	4-Methyl-2-pentanone	37	U
108-88-3-----	Toluene	2.1	JB
10061-02-6-----	trans-1,3-Dichloropropene	7.5	U
97-63-2-----	Ethyl Methacrylate	7.5	U
79-00-5-----	1,1,2-Trichloroethane	7.5	U
127-18-4-----	Tetrachloroethene	7.5	U
142-28-9-----	1,3-Dichloropropane	7.5	U
591-78-6-----	2-Hexanone	37	U
124-48-1-----	Dibromochloromethane	7.5	U
106-93-4-----	1,2-Dibromoethane	7.5	U
108-90-7-----	Chlorobenzene	7.5	U
630-20-6-----	1,1,1,2-Tetrachloroethane	7.5	U
100-41-4-----	Ethylbenzene	7.5	U
1330-20-7-----	Xylene (m,p)	2.6	JB
95-47-6-----	Xylene (o)	1.2	JB
1330-20-7-----	Xylene (total)	4.0	JB
100-42-5-----	Styrene	7.5	U
75-25-2-----	Bromoform	7.5	U
98-82-8-----	Isopropylbenzene	7.5	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	7.5	U
108-86-1-----	Bromobenzene	7.5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	7.5	U
96-18-4-----	1,2,3-Trichloropropane	7.5	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ARGLAB SAMPLE NO.

BA-S-22533 30A

Lab Name: STL BURLINGTON

Contract: 21005

Lab Code: STLVT

Case No.: BARNES

SAS No.:

SDG No.: 119211

Matrix: (soil/water) SOIL

Lab Sample ID: 704266

Sample wt/vol: 13.4 (g/mL) G

Lab File ID: 704266

Level: (low/med) MED

Date Received: 03/23/07

% Moisture: not dec. _____

Date Analyzed: 03/23/07

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume:

500 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

110-57-6-----	trans-1,4-Dichloro-2-butene	7.5	U
103-65-1-----	n-Propylbenzene	7.5	U
95-49-8-----	2-Chlorotoluene	7.5	U
106-43-4-----	4-Chlorotoluene	7.5	U
108-67-8-----	1,3,5-Trimethylbenzene	7.5	U
98-06-6-----	tert-Butylbenzene	7.5	U
95-63-6-----	1,2,4-Trimethylbenzene	7.5	U
135-98-8-----	sec-Butylbenzene	7.5	U
541-73-1-----	1,3-Dichlorobenzene	7.5	U
99-87-6-----	4-Isopropyltoluene	7.5	U
106-46-7-----	1,4-Dichlorobenzene	7.5	U
95-50-1-----	1,2-Dichlorobenzene	7.5	U
104-51-8-----	n-Butylbenzene	7.5	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	7.5	U
120-82-1-----	1,2,4-Trichlorobenzene	7.5	U
87-68-3-----	Hexachlorobutadiene	7.5	U
91-20-3-----	Naphthalene	7.5	U
87-61-6-----	1,2,3-Trichlorobenzene	7.5	U

ENVIROSYSTEMS, INC.

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Phone (410) 964-0330 • Fax (410) 740-9306
Email: info@envsystems.com • Webpage: www.envsystems.com/envsys

September 1, 2006

Jorge S. Alvarado, Ph.D
Argonne National Laboratory
Environmental Sciences Division
Applied Geoscience and Environmental
Management Section
9700 South Cass Avenue, EV-203-A137
Argonne, Illinois 60439

RE: ENVSYS Report 0609079

Dear Jorge:

Enclosed is the Analytical Data Package for the samples received on August 25th, 2006 for volatile organics analysis by US EPA CLP SOW OLM04.3

Please do not hesitate to call me if you have any questions, comments, or require additional information.

Sincerely,



Mohan Khare, Ph.D
President/CEO

MK/pl

1. Narrative

00007

VOA SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CLIENT: ARGONNE NATIONAL LABORATORY

DATA SAMPLES RECEIVED AT LABORATORY: ~~SEPTEMBER 01, 2006~~ 8/25/06 PL 9/1/06

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

CLIENT #	LAB ID#	ANALYSIS	MATRIX	VOA pH
BAQCTB82406	006822-01	VOA	WATER	7
BACWW21849	006822-02	VOA	WATER	7
BAMW10D-W21842	006822-03	VOA	WATER	7

The samples for this SDG were analyzed for multi-media multi-concentration organics by EPA method SOW OLM04.3. The detection limits have been adjusted in-order to meet client specific requirements.

The cooler temperature was measured to be 4 degrees Celsius upon receipt.

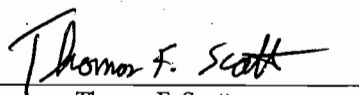
The volatile analysis was performed using an OI Analytical 4560 Purge and trap system coupled to an Agilent 5973 GC/MS. The trap utilized in this analysis was a standard OI Analytical #10 trap and compound separation was achieved using a Restek RTX-624 (20 m X 0.18 mm X 1.0µm) capillary column.

All of the target compounds met initial calibration requirements according to SOW OLM04.3.

All the samples were analyzed using the 50 ppb standard from the calibration. This standard met all CCV and ICAL requirements as specified by SOW OLM04.3

Matrix spike/matrix spike duplicate analysis was performed on sample BAMW10D-W21842 with passing results.

All other QC criteria were met for the samples included in this report.



Thomas F. Scott.
Laboratory Director

9/1/06
DATE

00002

2. SGD Cover Sheet/Traffic Reports

00003

[illegible]

VOLATILE SAMPLE DATA

00012

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACWW21849

Lab Name: ENVIROSYSTEMS, INC.

Contract:

Lab Code: ENVSYS

Case No.:

SAS No.:

SDG No.: F060831B

Matrix: (soil/water) WATER

Lab Sample ID: 0060822-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: H73FG119

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.

COMPOUND

75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	1.9	J
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BACWW21849

Lab Name: ENVIROSYSTEMS, INC.

Contract:

Lab Code: ENVSYS

Case No.:

SAS No.:

SDG No.: F060831B

Matrix: (soil/water) WATER

Lab Sample ID: 0060822-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: H73FG119

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW10D-W21842

Lab Name: ENVIROSYSTEMS, INC.

Contract:

Lab Code: ENVSYS

Case No.:

SAS No.:

SDG No.: F060831B

Matrix: (soil/water) WATER

Lab Sample ID: 0060822-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: H73FG120

Level: (low/med) LOW

Date Received: 08/25/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	2.0	J
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW10D-W21842

Lab Name: ENVIROSYSTEMS, INC.

Contract:

Lab Code: ENVSYS Case No.:

SAS No.:

SDG No.: F060831B

Matrix: (soil/water) WATER

Lab Sample ID: 0060822-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: H73FG120

Level: (low/med) LOW

Date Received: 08/25/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
---------	----------	---	------	---

79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAQCTB82406

Lab Name: ENVIROSYSTEMS, INC.

Contract:

Lab Code: ENVSYS Case No.:

SAS No.:

SDG No.: F060831B

Matrix: (soil/water) WATER

Lab Sample ID: 0060822-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: H73FG118

Level: (low/med) LOW

Date Received: 08/25/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAQCTB82406

Lab Name: ENVIROSYSTEMS, INC.

Contract:

Lab Code: ENVSYS Case No.:

SAS No.:

SDG No.: F060831B

Matrix: (soil/water) WATER

Lab Sample ID: 0060822-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: H73FG118

Level: (low/med) LOW

Date Received: 08/25/06

% Moisture: not dec. _____

Date Analyzed: 08/31/06

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

ENVIROSYSTEMS, INC.

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Phone (410) 964-0330 • Fax (410) 740-9306
Email: info@envsystems.com • Webpage: www.envsystems.com/envsys

March 22, 2007

Jorge S. Alvarado, Ph.D
Argonne National Laboratory
Environmental Sciences Division
Applied Geoscience and Environmental
Management Section
9700 South Cass Avenue, EV-203-A137
Argonne, Illinois 60439

RE: ENVSYS Report 070206

Dear Jorge:

Enclosed is the Analytical Data Package for the samples received on March 14, 2007 for volatile organics analysis by US EPA CLP SOW OLM04.3

Please do not hesitate to call me if you have any questions, comments, or require additional information.

Sincerely,



Mohan Khare, Ph.D
President/CEO

MK/pl

1. Narrative

**SDG NARRATIVE
VOLATILE ORGANICS (VOC)**

Envirosystems, Inc.

Contract: N/A

Client: Argonne National Laboratory

Case: N/A

SDG: N/A

1. SAMPLE RECEIPT

Date received: 03-14-2007

Cooler Temperature: 3

Sample Summary

Client ID	Laboratory ID	Matrix	pH
BA-MW15S-W-22509	0070302-01	WATER	10
BA-PWS3-W-22511	0070302-02	WATER	7
BA-MW16S-W-22513	0070302-03	WATER	7
BA-MW15D-W-22508	0070302-04	WATER	7
BA-QCTB-W-31307	0070302-05	WATER	5

2. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met

3. METHODS

The samples were analyzed and reported by using method SW-846 8260B and USEPA CLP SOW OLM04.3 for target compound list.

4. INSTRUMENT AND CHROMATOGRAPHIC CONDITIONS

A Hewlett Packard 6890N gas chromatograph equipped with a Hewlett Packard 5975 MSD was used for sample analysis. The capillary column used was a Restek 20m by 0.18 mm ID by 1.0 µm film thickness (Restek Cat. # RTX-624). The trap used with the sample concentrator is an OI Analytical Trap #10, 30cm packed with Tenax/silica gel/cms (PN#228122).

5. PREPARATION

The submitted samples were analyzed as received.

6. ANALYSIS

A. Calibration:

I. Initial calibration

All acceptance criteria as stipulated by SW-846 8260b were met for all SPCC's and CCC's. All target compounds met the required percent RSD except for acetone.

Continuing calibration

00002

**SDG NARRATIVE
VOLATILE ORGANICS (VOC)**

070319-CCV1—meets all criteria for all compounds.

070319-CCV2—meets all criteria for all compounds.

Blanks: All acceptance criteria were met.

Spikes:

II. Laboratory Control Spikes (LCS)

VLCS0319 meets requirements.

VLCS0319 meets requirements.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

No MS/MSD were not required for this case.

B. Internal Standards/Surrogates

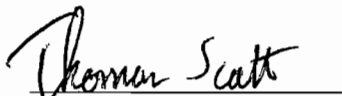
All acceptance criteria were met.

C. Samples

Sample analysis proceeded normally.

Manual Integration Summary

No manually integration were required



Laboratory Manager

3-20-07

Date

00003

2. SGD Cover Sheet/Traffic Reports

VOLATILE SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW15S
-W-22509

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE744

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

BA-MW15S
-W-22509

Lab Code: ENVSYS Case No.: N/A

SAS No.: F070319 SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE744

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/L	Q
79-01-6	Trichloroethene	5.0	U	
108-87-2	Methylcyclohexane	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
108-10-1	4-Methyl-2-Pentanone	5.0	U	
108-88-3	Toluene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
127-18-4	Tetrachloroethene	5.0	U	
591-78-6	2-Hexanone	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethylbenzene	5.0	U	
1330-20-7	Xylene (Total)	5.0	U	
100-42-5	Styrene	5.0	U	
75-25-2	Bromoform	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	

VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW15S -W-22509

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE744

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

91-20-3	Naphthalene	10	U
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-PWS3-W-22511

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE745

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-PWS3-W-22511

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE745

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-PWS3-W-22511

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE745

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

91-20-3	Naphthalene	10	U
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW16S -W-22513

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE746

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW16S
-W-22513

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE746

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW16S
-W-22513

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE746

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

91-20-3	Naphthalene	10	U
---------	-------------	----	---

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

BA-MW15D
-W-22508

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE747

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW15D
-W-22508

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE747

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-MW15D
-W-22508

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE747

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

91-20-3	Naphthalene	10	U
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-QCTB-W-31307

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-05

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE743

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-QCTB-W-31307

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-05

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE743

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U

VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BA-QCTB-W-31307

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: N/A

SAS No.: F070319

SDG No.: H070319

Matrix: (soil/water) WATER

Lab Sample ID: 0070302-05

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE743

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 03/19/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

91-20-3	Naphthalene	10	U
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ENVIROSYSTEMS, INC.

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Email: info@envsystems.com • Webpage: www.envsystems.com/envsys

April 13, 2007

Jorge S. Alvarado, Ph.D
Argonne National Laboratory
Environmental Sciences Division
Applied Geoscience and Environmental
Management Section
9700 South Cass Avenue, EV-203-A137
Argonne, Illinois 60439

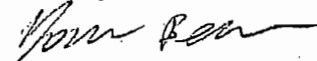
RE: ENVSYS Report 070216

Dear Jorge:

Enclosed is the Analytical Data Package for the samples received on April 6th, 2007 for volatile organics analysis by US EPA CLP SOW OLM04.3

Please do not hesitate to call me if you have any questions, comments, or require additional information.

Sincerely,



for → Mohan Khare, Ph.D
President/CEO

MK/pl

1. Narrative

**SDG NARRATIVE
VOLATILE ORGANICS (VOC)**

Envirosystems, Inc.

Contract: N/A

Client: Argonne National Laboratory

Case: N/A

SDG: N/A

1. SAMPLE RECEIPT

Date received: 04-06-2007

Cooler Temperature: 2

Sample Summary

Client ID	Laboratory ID	Matrix	pH
BAMW13S-W-22575	0070401-01	WATER	7
BAMW9-W-22582	0070401-02	WATER	7
BAQCTB-W-22581	0070401-03	WATER	7
BAMW14S-W-22569	0070401-04	WATER	7

2. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met

3. METHODS

The samples were analyzed and reported by using method SW-846 8260B and USEPA CLP SOW OLM04.3 for target compound list.

4. INSTRUMENT AND CHROMATOGRAPHIC CONDITIONS

A Hewlett Packard 6890 gas chromatograph equipped with a Hewlett Packard 5975 MSD was used for sample analysis. The capillary column used was a Restek 20m by 0.18 mm ID by 1.0 μ m film thickness (Restek Cat. # RTX-624). The trap used with the sample concentrator is an OI Analytical Trap #10, 30cm packed with Tenax/silica gel/cms (PN#228122).

5. PREPARATION

The submitted samples were analyzed as received.

6. ANALYSIS

A. Calibration:

I. Initial calibration

All acceptance criteria as stipulated by SW-846 8260b were met for all SPCC's and CCC's. All target compounds met the required percent RSD except for acetone.

**SDG NARRATIVE
VOLATILE ORGANICS (VOC)**

II. Blanks:

All acceptance criteria were met.

II. Surrogates:

All acceptance criteria were met..

B. Spikes:

I. Laboratory Control Spikes (LCS)

No LCS samples were analyzed.

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The client did not request a MS/MSD.

C. Internal Standards:

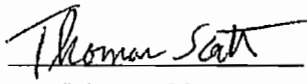
All acceptance criteria were met.

D. Samples

Sample analysis proceeded normally.

Manual Integration Summary

No manual integrations were required.


Laboratory Manager

4/13/07
Date

2. SGD Cover Sheet/Traffic Reports

4593

[illegible]

VOLATILE SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW13S-W-22575

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE925

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0 U	
74-87-3	Chloromethane	5.0 U	
75-01-4	Vinyl Chloride	5.0 U	
74-83-9	Bromomethane	5.0 U	
75-00-3	Chloroethane	5.0 U	
75-69-4	Trichlorofluoromethane	5.0 U	
75-35-4	1,1-Dichloroethene	5.0 U	
76-13-1	1,1,2-Trichloro-1,2,2-triflu	5.0 U	
67-64-1	Acetone	5.0 U	
75-15-0	Carbon Disulfide	5.0 U	
79-20-9	Methyl Acetate	5.0 U	
75-09-2	Methylene Chloride	5.0 U	
156-60-5	trans-1,2-Dichloroethene	5.0 U	
1634-04-4	Methyl tert-Butyl Ether	5.0 U	
75-34-3	1,1-Dichloroethane	5.0 U	
156-59-2	cis-1,2-Dichloroethene	5.0 U	
78-93-3	2-Butanone	5.0 U	
67-66-3	Chloroform	2.0 J	
71-55-6	1,1,1-Trichloroethane	5.0 U	
110-82-7	Cyclohexane	5.0 U	
56-23-5	Carbon Tetrachloride	20	
71-43-2	Benzene	5.0 U	
107-06-2	1,2-Dichloroethane	5.0 U	
79-01-6	Trichloroethene	5.0 U	
108-87-2	Methylcyclohexane	5.0 U	
78-87-5	1,2-Dichloropropane	5.0 U	
75-27-4	Bromodichloromethane	5.0 U	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	
108-10-1	4-Methyl-2-Pentanone	5.0 U	
108-88-3	Toluene	5.0 U	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	
79-00-5	1,1,2-Trichloroethane	5.0 U	
127-18-4	Tetrachloroethene	5.0 U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW13S-W-22575

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE925

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

591-78-6-----	2-Hexanone	5.0	U
124-48-1-----	Dibromochloromethane	5.0	U
106-93-4-----	1,2-Dibromoethane	5.0	U
108-90-7-----	Chlorobenzene	5.0	U
100-41-4-----	Ethylbenzene	5.0	U
1330-20-7-----	Xylene (Total)	5.0	U
100-42-5-----	Styrene	5.0	U
75-25-2-----	Bromoform	5.0	U
98-82-8-----	Isopropylbenzene	5.0	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1-----	1,3-Dichlorobenzene	5.0	U
106-46-7-----	1,4-Dichlorobenzene	5.0	U
95-50-1-----	1,2-Dichlorobenzene	5.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1-----	1,2,4-Trichlorobenzene	5.0	U
91-20-3-----	Naphthalene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW9-W-22582

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE926

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	1.1	J
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW9-W-22582

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-02

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE926

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

591-78-6-----	2-Hexanone	5.0	U
124-48-1-----	Dibromochloromethane	5.0	U
106-93-4-----	1,2-Dibromoethane	5.0	U
108-90-7-----	Chlorobenzene	5.0	U
100-41-4-----	Ethylbenzene	5.0	U
1330-20-7-----	Xylene (Total)	5.0	U
100-42-5-----	Styrene	5.0	U
75-25-2-----	Bromoform	5.0	U
98-82-8-----	Isopropylbenzene	5.0	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1-----	1,3-Dichlorobenzene	5.0	U
106-46-7-----	1,4-Dichlorobenzene	5.0	U
95-50-1-----	1,2-Dichlorobenzene	5.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1-----	1,2,4-Trichlorobenzene	5.0	U
91-20-3-----	Naphthalene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAQCTB-W-22581

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE927

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-71-8-----	Dichlorodifluoromethane	5.0	U
74-87-3-----	Chloromethane	5.0	U
75-01-4-----	Vinyl Chloride	5.0	U
74-83-9-----	Bromomethane	5.0	U
75-00-3-----	Chloroethane	5.0	U
75-69-4-----	Trichlorofluoromethane	5.0	U
75-35-4-----	1,1-Dichloroethene	5.0	U
76-13-1-----	1,1,2-Trichloro-1,2,2-triflu	5.0	U
67-64-1-----	Acetone	3.6	J
75-15-0-----	Carbon Disulfide	5.0	U
79-20-9-----	Methyl Acetate	5.0	U
75-09-2-----	Methylene Chloride	5.0	U
156-60-5-----	trans-1,2-Dichloroethene	5.0	U
1634-04-4-----	Methyl tert-Butyl Ether	5.0	U
75-34-3-----	1,1-Dichloroethane	5.0	U
156-59-2-----	cis-1,2-Dichloroethene	5.0	U
78-93-3-----	2-Butanone	5.0	U
67-66-3-----	Chloroform	5.0	U
71-55-6-----	1,1,1-Trichloroethane	5.0	U
110-82-7-----	Cyclohexane	5.0	U
56-23-5-----	Carbon Tetrachloride	5.0	U
71-43-2-----	Benzene	5.0	U
107-06-2-----	1,2-Dichloroethane	5.0	U
79-01-6-----	Trichloroethene	5.0	U
108-87-2-----	Methylcyclohexane	5.0	U
78-87-5-----	1,2-Dichloropropane	5.0	U
75-27-4-----	Bromodichloromethane	5.0	U
10061-01-5-----	cis-1,3-Dichloropropene	5.0	U
108-10-1-----	4-Methyl-2-Pentanone	5.0	U
108-88-3-----	Toluene	5.0	U
10061-02-6-----	trans-1,3-Dichloropropene	5.0	U
79-00-5-----	1,1,2-Trichloroethane	5.0	U
127-18-4-----	Tetrachloroethene	5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAQCTB-W-22581

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE927

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

591-78-6-----	2-Hexanone	5.0	U
124-48-1-----	Dibromochloromethane	5.0	U
106-93-4-----	1,2-Dibromoethane	5.0	U
108-90-7-----	Chlorobenzene	5.0	U
100-41-4-----	Ethylbenzene	5.0	U
1330-20-7-----	Xylene (Total)	5.0	U
100-42-5-----	Styrene	5.0	U
75-25-2-----	Bromoform	5.0	U
98-82-8-----	Isopropylbenzene	5.0	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1-----	1,3-Dichlorobenzene	5.0	U
106-46-7-----	1,4-Dichlorobenzene	5.0	U
95-50-1-----	1,2-Dichlorobenzene	5.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1-----	1,2,4-Trichlorobenzene	5.0	U
91-20-3-----	Naphthalene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW14S-W-22569

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE928

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-71-8-----	Dichlorodifluoromethane	5.0	U
74-87-3-----	Chloromethane	5.0	U
75-01-4-----	Vinyl Chloride	5.0	U
74-83-9-----	Bromomethane	5.0	U
75-00-3-----	Chloroethane	5.0	U
75-69-4-----	Trichlorofluoromethane	5.0	U
75-35-4-----	1,1-Dichloroethene	5.0	U
76-13-1-----	1,1,2-Trichloro-1,2,2-triflu	5.0	U
67-64-1-----	Acetone	5.0	U
75-15-0-----	Carbon Disulfide	5.0	U
79-20-9-----	Methyl Acetate	5.0	U
75-09-2-----	Methylene Chloride	5.0	U
156-60-5-----	trans-1,2-Dichloroethene	5.0	U
1634-04-4-----	Methyl tert-Butyl Ether	5.0	U
75-34-3-----	1,1-Dichloroethane	5.0	U
156-59-2-----	cis-1,2-Dichloroethene	5.0	U
78-93-3-----	2-Butanone	5.0	U
67-66-3-----	Chloroform	5.0	U
71-55-6-----	1,1,1-Trichloroethane	5.0	U
110-82-7-----	Cyclohexane	5.0	U
56-23-5-----	Carbon Tetrachloride	5.0	U
71-43-2-----	Benzene	5.0	U
107-06-2-----	1,2-Dichloroethane	5.0	U
79-01-6-----	Trichloroethene	5.0	U
108-87-2-----	Methylcyclohexane	5.0	U
78-87-5-----	1,2-Dichloropropane	5.0	U
75-27-4-----	Bromodichloromethane	5.0	U
10061-01-5-----	cis-1,3-Dichloropropene	5.0	U
108-10-1-----	4-Methyl-2-Pentanone	5.0	U
108-88-3-----	Toluene	5.0	U
10061-02-6-----	trans-1,3-Dichloropropene	5.0	U
79-00-5-----	1,1,2-Trichloroethane	5.0	U
127-18-4-----	Tetrachloroethene	5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BAMW14S-W-22569

Lab Name: ENVIROSYSTEMS, INC.

Contract: ARGONNE

Lab Code: ENVSYS

Case No.: ARGONNE SAS No.: N/A

SDG No.: NA

Matrix: (soil/water) WATER

Lab Sample ID: 0070401-04

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: AG75HE928

Level: (low/med) LOW

Date Received: 04/06/07

% Moisture: not dec. _____

Date Analyzed: 04/09/07

GC Column: RTX-624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6-----	2-Hexanone	5.0	U
124-48-1-----	Dibromochloromethane	5.0	U
106-93-4-----	1,2-Dibromoethane	5.0	U
108-90-7-----	Chlorobenzene	5.0	U
100-41-4-----	Ethylbenzene	5.0	U
1330-20-7-----	Xylene (Total)	5.0	U
100-42-5-----	Styrene	5.0	U
75-25-2-----	Bromoform	5.0	U
98-82-8-----	Isopropylbenzene	5.0	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1-----	1,3-Dichlorobenzene	5.0	U
106-46-7-----	1,4-Dichlorobenzene	5.0	U
95-50-1-----	1,2-Dichlorobenzene	5.0	U
96-12-8-----	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1-----	1,2,4-Trichlorobenzene	5.0	U
91-20-3-----	Naphthalene	10	U



STL

August 14, 2006

Mr. Clyde Dennis
Argonne National Laboratory
9700 South Cass Avenue
Building 203, Office B149
Argonne, IL 60439

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

Re: Laboratory Project No. 26000
Case: BARNES; SDG: 115412

Dear Mr. Dennis:

Enclosed are analytical results for samples that were received by STL Burlington on July 21st, 2006. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 07/21/06 ETR No: 115412			
676545	BAOENT-W-21693	07/20/06	WATER
676546	BAMW3D-W-21686	07/19/06	WATER
676547	BAMW4D-W-21690	07/20/06	WATER
676548	BAMW1D-W-21688	07/19/06	WATER
676549	BAMW2D-W-21687	07/19/06	WATER

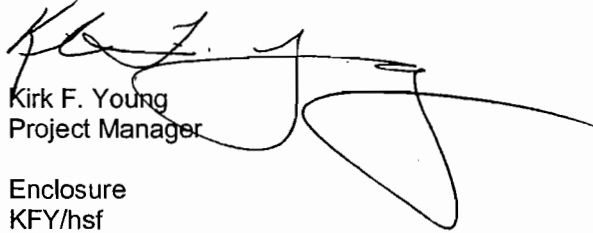
Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The analysis of the samples for nitrate/nitrite nitrogen was performed by USEPA Method 353.2, using preserved sample volumes. Matrix spike and replicate analyses were performed on sample BAMW2D-W-21687. The spiked component was recovered well in the matrix spike analysis. The replicate analyses did yield results with good correspondence in the interanalysis comparison. A laboratory control sample was prepared and analyzed in association with the samples, and the spiked component was recovered well in that analysis. The method blank that was analyzed with the samples was free of contamination.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,



Kirk F. Young
Project Manager

Enclosure
KFY/hsf

STL Burlington Data Qualifier Definitions

Organic

- U: Compound analyzed but not detected at a concentration above the reporting limit.
- J: Estimated value.
- N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.
- P: SW-846: Greater than 40% difference for detected concentrations between two GC columns. Unless otherwise specified the higher of the two values is reported on the Form I.
- CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.
- C: Pesticide result whose identification has been confirmed by GC/MS.
- B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.
- E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.
- D: Concentrations identified from analysis of the sample at a secondary dilution.
- A: Tentatively identified compound is a suspected aldol condensation product.
- X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

- E: Reported value is estimated due to the presence of interference.
- N: Matrix spike sample recovery is not within control limits.
- * Duplicate sample analysis is not within control limits.
- B: The result reported is less than the reporting limit but greater than the instrument detection limit.
- U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

- P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric



Chain of Custody

4

EA-180 (4-01)



Sample Data Summary Package - Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BAOENT-W-21693

Lab Name: STL BURLINGTON

Contract: 3E-00361

SDG No.: 115412

Lab Code: STLV

Case No.: BARNES

Lab Sample ID: 676545

Matrix: WATER

Client: ARGLAB

Date Received: 07/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
353.2	Nitrate/Nitrite Nitrogen	08/01/06	BLKNN080106A	ug/L	2	20.0	3260	

Printed on: 08/01/06 04:18 PM

WET CHEMISTRY
Sample Report Summary

Client Sample No.

BAMW3D-W-21686

Lab Name: STL BURLINGTON

Contract: 3E-00361

SDG No.: 115412

Lab Code: STLV

Case No.: BARNES

Lab Sample ID: 676546

Matrix: WATER

Client: ARGLAB

Date Received: 07/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
353.2	Nitrate/Nitrite Nitrogen	08/01/06	BLKNN080106A	ug/L	10	100	7840	

Printed on: 08/01/06 04:18 PM

WET CHEMISTRY

Sample Report Summary

BAMW4D-W-21690

Contract: 3E-00361

Case No.: BARNES

Client: ARGLAB

Date Received: 07/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
353.2	Nitrate/Nitrite Nitrogen	08/01/06	BLKNN080106A	ug/L	10	100	6880	

Printed on: 08/01/06 04:18 PM

WET CHEMISTRY

Sample Report Summary

Client Sample No.

BAMW1D-W-21688

Lab Name: STL BURLINGTON

Contract: 3E-00361

SDG No.: 115412

Lab Code: STLV

Case No.: BARNES

Lab Sample ID: 676548

Matrix: WATER

Client: ARGLAB

Date Received: 07/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
353.2	Nitrate/Nitrite Nitrogen	08/01/06	BLKNN080106A	ug/L	10	100	8390	

Printed on: 08/01/06 04:18 PM

WET CHEMISTRY
Sample Report Summary

Client Sample No.

BAMW2D-W-21687

Lab Name: STL BURLINGTON

Contract: 3E-00361

SDG No.: 115412

Lab Code: STLV

Case No.: BARNES

Lab Sample ID: 676549

Matrix: WATER

Client: ARGLAB

Date Received: 07/21/06

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
353.2	Nitrate/Nitrite Nitrogen	08/01/06	BLKNN080106A	ug/L	10	100	5470	

Printed on: 08/01/06 04:18 PM

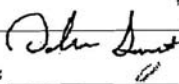
Supplement 6:
Waste Handling Data

M.D. Chemical and Testing, Inc.
P.O. Box 19321, Forbes Field, Bldg 281, Topeka, KS 66619
Kansas Certification No. E-10135 (785)862-3500 fax:(785)862-5132

Sample Collected By: Lisa Larsen
Received In lab: 3/20/2007 15:10
Date Reported: 3/22/2007
Project Name: Barnes Plus
Project Number:

Lab Number: 1070729
Client: Larsen & Associates
913 Rhode Island
P.O. Box 1447
Lawrence, KS 66044
ATTN: Lisa Larsen

Analysis	Method	Result	Detection Limit	Units	Date Analyzed	Analyst
1070729-01	Sampled: 3/16/2007 13:45	Sample ID: BA Purge Water				
Carbon Tetrachloride	SW 846-8260	Not Detected	[0.5]	µg/L(ppb)	3/21/2007	DS
Chloroform	SW 846-8260	Not Detected	[0.5]	µg/L(ppb)	3/21/2007	DS
1070729-03	Sampled: 3/16/2007 14:00	Sample ID: BA Soil Waste				
Carbon Tetrachloride	SW 846-8260	Not Detected	[0.05]	mg/kg(ppm)	3/21/2007	DS
Chloroform	SW 846-8260	Not Detected	[0.05]	mg/kg(ppm)	3/21/2007	DS

Approved By:  Delbert Smith
2007.03.22 10:52:38 -05'00
Lab Manager

WATER VOLATILE SURROGATE RECOVERY

EPA Method 8260A

M.D. Chemical & Testing

Saturn 2000 Archon w/Tekmar 3000 Purge & Trap

EPA Sample No	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	S9 #	S10 #	S11 #	S12 #	S13 #	S14 #	S15 #	S16 #	S17 #	S18 #	S19 #	S20 #	TOTAL OUT
032107BLK	110	111	113	115																	0
032107STD	107	106	107	113																	0
032107GSTD	106	108	113	111																	0
107072901	109	110	110	113																	0
107072401	109	112	109	113																	0
107072403	106	109	109	113																	0
107072405	108	110	109	117																	0
107072407	108	114	111	118																	0
107072409	110	110	108	115																	0
107072422	107	108	111	113																	0
107072424	109	107	110	109																	0
107072426	103	104	110	113																	0
107072428	111	115	108	118																	0
107072430	110	112	111	112																	0
107072432	107	109	112	110																	0
107072434	108	108	111	113																	0
107072438	103	108	108	110																	0
107072438D	107	113	107	110																	0
107072439S	108	88	110	111																	0
107072439S	103	88	109	111																	0
032107BLK2	108	107	111	116																	0

EPA Sample No S1 # S2 # S3 # S4 # S5 # S6 # S7 # S8 # S9 # S10 # S11 # S12 # S13 # S14 # S15 # S16 # S17 # S18 # S19 # S20 # TOTAL OUT
032107STD2 108 108 108 108 108
107070207 109 80 112 114
107071220 101 72 110 115

Replicates: 24 24 24 24
Average: 107 105 110 113
StdDev: 3 11 2 3

S1 = [SS1] Dibromofluoromethane (70 - 130)
S2 = [SS2] 1,2-Dichloroethane-d4 (70 - 130)
S3 = [SS3] Toluene-d8 (70 - 130)
S4 = [SS4] Bromofluorobenzene(BFB) (70 - 130)
Column to be used to flag recovery values.

* Values outside of contract required QC Limits
D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Method 8260A

M.D. Chemical & Testing

Saturn 2000 Archon w/Tekmar 3000 Purge & Trap

Matrix Spike - EPA Sample No 107072438

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
Methyl tert-Butyl Ether (MTBE)	45.0	0.0	35.2	78	70 - 130
Benzene	45.0	0.0	42.1	94	70 - 130
Toluene	45.0	0.1	43.0	95	70 - 130
Ethylbenzene	45.0	8.9	49.3	88	70 - 130
m/p-Xylene	90.0	24.5	113.5	99	70 - 130
o-Xylene	45.0	8.8	62.6	120	70 - 130
Naphthalene	45.0	3.1	24.1	47 *	70 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC
Methyl tert-Butyl Ether (MTBE)	45.0	34.7	77	1	20 70 - 130
Benzene	45.0	42.8	95	1	20 70 - 130
Toluene	45.0	39.7	88	8	20 70 - 130
Ethylbenzene	45.0	46.7	82	7	20 70 - 130
m/p-Xylene	90.0	106.0	91	9	20 70 - 130
o-Xylene	45.0	59.9	114	5	20 70 - 130
Naphthalene	45.0	25.9	51 *	8	20 70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits

Spike Recovery: 2 out of 14 outside limits

EPA Method 8260A

M.D. CHEMICAL & TESTING

SATURN 2000 w/ ARCHON (SOIL METHOD)

[illegible]

EPA Sample No S1 # S2 # S3 # S4 # S5 # S6 # S7 # S8 # S9 # S10 # S11 # S12 # S13 # S14 # S15 # S16 # S17 # S18 # S19 # S20 # TOTAL OUT

Replicates: 13 13 13 13
Average: 111 93 105 124
StdDev: 3 4 4 4

S1 = [SS1] Dibromofluoromethane
S2 = [SS2] 1,2-Dichloroethane-d4
S3 = [SS3] Toluene-d8
S4 = [SS4] Bromofluorobenzene(BFB)
Column to be used to flag recovery values.

* Values outside of contract required QC Limits
D System Monitoring Compound diluted out

QC Limits
(70 - 130)
(70 - 130)
(70 - 130)
(70 - 130)

MD

CHEMICAL & TESTING, INC.

FORBES FIELD, BLDG. 281, TOPEKA, KS 66619
PHONE: 785-662-9000 FAX: 785-662-5122

CLIENT NAME

Larsen & Associates

CONTACT

LISA LARSEN

STREET ADDRESS

1311 E. 25th St. Suite B

CITY, STATE, ZIP

Lawrence, KS 66044

PHONE #

785, 841 8707

FAX #

785, 865 4282

PROJECT NAME

BARNES PWS

LAB USE ONLY

CLIENT SAMPLE ID

BAPurge location - 6-22548

DATE SAMPLED

3-16-07

TIME SAMPLED

1345

BASoil waste - 5-22549

3-16-07

1400

Number of Containers

2

1

CONTAINER TEMP (°C)

6.0 C

NOTES

ANALYSIS REQUESTED

Carbon tetrachloride

MATRIX
AIR
SOIL
WATER
GAS
COMPOSITE
Non-Preserved
HCl Hydrochloric Acid
NaOH (Sodium Hydroxide)
H2SO4 (Sulfuric Acid)
HNO3 (Nitric Acid)

PRESERVATION

OTHER (SPECIFY)

ANALYSIS REQUESTED

LAB USE ONLY

DATE SAMPLED

TIME SAMPLED

CLIENT SAMPLE ID

STREET ADDRESS

CITY, STATE, ZIP

PHONE #

FAX #

PROJECT NAME

LAB USE ONLY

LAB NUMBER

1070129

DUE DATE

3/21

TURNAROUND TIME REQUESTED

STANDARD

☐ 5 working days

RUSH ANALYSIS

☐ 48 HR ☒ 24 HR

*RUSH TAT requires lab contact for availability of services.

RELINQUISHED BY

[Signature]

DATE/TIME

3-20-07 1300

ACCEPTED BY

[Signature]

3-20-07 3:10

SAMPLER (PRINT) LISA LARSEN

COMMENTS

BA/OC needed

SIGNATURE

[Signature]

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Rolling Meadows Recycling & Disposal Facility

DATE: 3/15/07 **DISPOSAL SITE:** MANHATTAN

TRANSPORTER: WASTE MANAGEMENT

GENERATOR: AVIATION

GENERATOR'S SIGNATURE: _____ **DATE:** _____

CONTRACTOR'S SIGNATURE: _____ **DATE:** _____

WASTE DESCRIPTION: FLUORESCENT LIGHTS

STATE AUTHORIZATION: 06-1032 **QUANTITY:** _____

ACCEPTED BY: _____ **TIME:** _____ **DATE:** _____

DRIVER'S SIGNATURE: _____ **DATE:** _____

THUCK NO: 468135 **BOX NO:** _____

WASTE TRANSPORTED COPY **YELLOW SITE COPY** **WHITE GENERATOR COPY** **GOLD CONTRACTOR COPY**

WASTE MANAGEMENT

No 27551

Profile # 06-1032

11/11/07

TONS/MTS



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